BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 1

Biology Single Choice

1. Which of the following statement is true regarding the role acetylcholine in nerve physiology?

A. It increases the selective permeability of the cell membrane

B. It increase the potassium concentration inside the axon

C. It reduces activity of Na-K pump

D. It increase the sodium concentration outside the axon

Answer: A

Watch Video Solution

2. A bicollateral vascular bundle is characterized by

A. Phloem surrounded on both sides by xylem

B. Transverse splitting of vascular bundle

C. Longitudinal splitting of vascular bundle

D. Xylem surrounded on both sides by phloem

Answer: D

Watch Video Solution

3. A few statements describing certain features of reproduction are given below.

(i) Gametic fusion takes place.

(ii) Transfer of genetic material takes place.

(Iii) Reduction division takes place.

(iv) Progeny have some resemblance with parents.

Select the options that are true for both asexual and sexual reproduction from the options given below.

A. i and ii

B. ii and iii

C. ii and iv

D. i and iii

Answer: C

Watch Video Solution

4. Root does not help in the absorption of water in which of the following plant?

A. Pistia

B. Pea

C. Wheat

D. Sunflower

Answer: A

Watch Video Solution

5. Artificial induction of roots on stems before it is separated from the parent plant for propagation is called

A. Cutting

B. Layering

C. Plant tissue culture

D. Grafting

Answer: B

Watch Video Solution

6. Generally number of integuments in the ovule of angiosperms and gymnosperms is

A. One and two

B. One and one

C. Two and one

D. Two and two

Answer: C

Watch Video Solution

7. Cartilage is formed by

A. Osteoblasts

B. Chondrocytes

C. Fibroblasts

D. Epithelium

Answer: B

Watch Video Solution

8. In root nodules of leguminous plants, the pigment leghemoglobin that gives pink colour to the nodules, is present in the

A. The wall of bacteria

B. The wall of host cell

C. The cytoplasm of host cell

D. Between bacteroids and surrounding

Answer: D

Watch Video Solution

9. A fall in glomerular filtration rate (GFR) activates

A. Adrenal cortex to release aldosterone

B. Adrenal medulla to release adrenaline

C. Juxta-glomerular cells to release renin

D. Posterior pituitary to release vasopressin

Answer: C

Watch Video Solution

10. Ephemerals are xeropytes that are

A. Drought resisting

B. Drought enduring

C. Drought escaping

D. None of these

Answer: C

Watch Video Solution

11. What is true about Bt toxin?

A. Bt protein exists as active toxin in the Bacillus

B. The activated toxin enters the ovaries of the pest to sterilize it and thus prevent its multiplication.

C. The concerned Bacillus has antitoxins.

D. The inactive protoxin gets converted into an active form in the insect gut.

Answer: D

Watch Video Solution

12. Identify the wrong statement regarding post-fertilization development.

A. The ovary wall develops into pericarp

B. The outer intergument of the ovule develops into a tegmen

C. The fusion nucleus (triple nucleus) develops into endosperm

D. The ovule develops into seed

Answer: B

Watch Video Solution

13. Selaginella has a tendency to form seed, called seed habit because it follows

A. Retention of megaspore permanently inside the megasporangium

B. Heterospory

C. Both (A) and (B)

D. None of the above

Answer: C

Watch Video Solution

14. Cytokinin was first discovered by

A. Skoog and Miller

B. Boyer

C. Benson and Calvin

D. Went

Answer: A

Watch Video Solution

15. Surrogate mother is used for

A. induction of lactation

B. Artificially inseminated female

C. Future mother with transplanted embryo

D. Mother who provides ovum

Answer: C

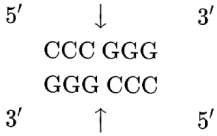
Watch Video Solution

16. Which specific DNA sequence where Eco R1 cuts is

Or Which of the following palindromic sequence is recognized by EcoRI

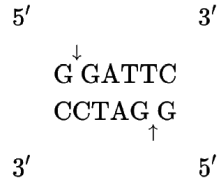
A.

B.



C.

D.



Answer: A

Watch Video Solution

17. Removal of calcium from freshly collected blood would

A. cause delayed clotting

B. prevent clotting

C. cause immediate clotting

D. prevent destruction of haemoglobin

Answer: B

Watch Video Solution

18. Synapsis is pairing of

A. Any two chromosomes

B. Non homologous chromosomes

C. Acentric chromosomes

D. Homologues chromosomes

Answer: D

Watch Video Solution

19. The endometrium is found in

A. Placenta of mammals

B. Nipple of mammals

C. Uterus of mammals

D. none of these

Answer: C

Watch Video Solution

20. Consider the statements given below regarding contraception and answer as directed thereafter:

(1) Medical Termination of Pregnancy (MTP) during first trimester is generally safe

(2) Generally chances of contraception are nil until mother breast-feeds the infant upto two years

(3) Intrauterine devices like copper-T are effective contraceptives

(4) Contraceptive pill may be taken upto one week after coitus to prevent conception

A. 1 and 2

B. 2 and 3

C. 3 and 4

D. 2 and 4

Answer: D

Watch Video Solution

21. When succinyl-CoA is converted into succinic acid, the energy-storing compound formed is

A. ADP

B. GDP

C. AMP

D. GTP

Answer: D

Watch Video Solution

22. Find the incorrect pair.

A. Bowman's capsule - Glomerular filtration

B. PCT- Absorption of Na^+ and K^+

C. DCT - Absorption of glucose

D. None of these

Answer: C

Watch Video Solution

23. Which part of the human brain controls the urge for eating and drinking ?

A. Forebrain

B. Midbrain

C. Hindbrain

D. Spinal cord

Answer: A

Watch Video Solution

24. The haploid cell which divides by mitosis to form embryosac is

A. Megaspore mother cell

B. Microspore mother cell

C. Functional megaspore

D. Non-functional megaspore

Answer: C

Watch Video Solution

25. The most common indicator organism that represents polluted water is

A. E. coli

B. P. typhi

C. C. vibrio

D. Entamoeba

Answer: A

Watch Video Solution

26. A DNA strand is directly involved in the synthesis of all of the following, except

A. Another DNA

B. Protein synthesis

C. tRNA molecule

D. mRNA molecule

Answer: B

Watch Video Solution

27. In Bryophytes, antherozoids are

A. Biflagellate

B. Multiflagellate

C. Sometimes biflagellate and sometimes multiflagellate

D. Biflagellate in a few species and multiflagellate in the rest

Answer: A

Watch Video Solution

28. Lichen are ecologically important as they

A. Purify air

B. Are pioneers of barren rocks

C. Are symbionts of algae and fungi

D. Are associated with mycorrhizal roots

Answer: B

Watch Video Solution

29. The loosely arranged nonchlorophyllous parenchyma cells present in lenticels are called

A. Complementary cells

B. Passage cells

C. Water stomata

D. Albuminous cells

Answer: A

Watch Video Solution

30. By the use of biotechnology, the production of B_2 vitamins has been increased to about 20,000 times in which of the following organism?

A. Ashbya gossypii

B. Escherichia coli

C. Pseudomonas denitrificans

D. Propionbacterium shermanii

Answer: A

Watch Video Solution

31. The role of bacteria in carbon cycle is

A. photosynthesis

B. chemosynthesis

C. decomposition of organic compounds

D. evolution of O_2

Answer: C

Watch Video Solution

32. Which of the following is the closer relative of man :

A. Chimpanzee

B. Gorilla

C. Orangutan

D. Gibbon

Answer: A

Watch Video Solution

33. For transformation with recombinant DNA, the bacterial cells must first be made competent which means

A. Should increase their metabolic reactions

B. Should decrease their metabolic reactions

C. increases efficiency with which DNA enters the bacterium

D. Ability to divide fast

Answer: C

Watch Video Solution

34. If a colourblind woman marries a normal visioned man, their sons will be -

A. One-half colour blind and one - half normal

B. Three-fourth colour blind and one fourth normal

C. All colour blind

D. All normal visioned

Answer: C

Watch Video Solution

35. When both ovaries are removed from a rat which hormone is decreased in blood?

A. Oxytocin

B. Prolactin

C. Estrogen

D. Gonadotropin releasing factor

Answer: C

Watch Video Solution

36. which of the following crops have been brought to India from new world?

A. Cashew nut, Potato, rubber

B. Mango, tea

C. Tea, rubber mango

D. Coffee

Answer: A

Watch Video Solution

37. Botanical name of Cauliflower is

A. Brassica oleracea var. Capitata

B. Brassia comapesteris

C. Brassica oleracea var. botrytis

D. Brassica oleracea var. Gemmifera

Answer: C

Watch Video Solution

38. On the basis of symptoms of chlorosis in leaves, a student inferred that this was due to deficiency of nitrogen. This inference could be correct only if we assume that yellowing of leaves apeared first in

A. Old leaves

B. Young leaves

C. Young leaves followed by mature leaves

D. Young leaves followed by older leaves

Answer: A

Watch Video Solution

39. If the total amount of adenine and thymine in a double-stranded DNA is 60%, then the amount of guanine in this DNA will be

A. 0.15

B. 0.2

C. 0.3

D. 0.4

Answer: B

Watch Video Solution

40. Vector for kala-azar is:

A. Sand fly

B. House fly

C. Louse

D. Bed bug

Answer: A

Watch Video Solution

41. Restriction endonucleases are enzymes which

A. Cuts at specific positions with in the DNA molecule

B. Recognize a specific nucleotide sequence for binding of DNAligase

C. Restrict the action of the enzyme DNA polymerase

D. Remove nucleotides from the ends of the DNA molecule

Answer: A

Watch Video Solution

42. The first line of defence is

A. Antibodies

B. WBC

C. Skin

D. Liver

Answer: C

Watch Video Solution

43. Which of the following papillae are without taste buds in human tongue?

A. Vallate

B. Fungiform

C. Fusiform

D. Filiform

Answer: D

Watch Video Solution

44. According to the chemi-osmotic mechanism for ATP synthesis given by P. Mitchell, the force/factor responsible for ATP synthesis is

A. Membrane potential across membrane

B. Proton motive force

C. Electromotive force

D. Redox potential

Answer: B

Watch Video Solution

45. Convergent evolution is illustrated by

A. Dogfish and whale

B. Rat and dog

C. Bacterium and protozoan

D. Starfish and cuttle fish

Answer: A

Watch Video Solution

46. In human body , which one of the following is anatomically correct ?

A. Collar bones - 3 pairs

B. Salivary glands - 1 pair

C. Cranial nerves - 10 pairs

D. Floating ribs - 2 pairs

Answer: D

Watch Video Solution

47. Site of attachment of spindle fibres in chromosome lies

A. On the sides of centromere

B. After secondary constriction

C. Near telomere

D. Within centromere

Answer: A

Watch Video Solution

48. What will happen if ligaments are cut or broken :-

A. Bones will move freely at joints

B. No movement at joints

C. Bones will become unfix

D. Bones will become fixed

Answer: C

Watch Video Solution

49. Biogas contains

A. 30% - 40% methane

B. 50% - 70% - CO_2

C. 50% - 70% methane

D. 20% methane

Answer: C

Watch Video Solution

50. Select the correct statement related to flowering in plants.

I. Some plants require a periodic exposure to light to induce flowering

II. The flowering is either quantitatively or qualitatively dependent on exposure to low temperature.

III. The site of perception of light/dark duration is the stem apex.

IV. Flowering in plants is due to the hormones produced in the shoot apex.

A. I, II and II are correct

B. I and II are correct

C. I, II and IV are correct

D. All are correct

Answer: C

Watch Video Solution

51. Which statement is not true for binomial system of nomenclature?

A. Biological names are generally in Latin or Latinized or derived from Latin irrespective of their origin

B. The first word in a biological name represents the species while the second word denotes the genus.

C. The first word of biological name starts with capital letter and the first letter of second word starts with small letter.

D. Name of the author is written in abbreviated form after the specific epithet

Answer: B

Watch Video Solution

52. Air layering is performed in case of

A. Jasmin

B. Grapevine

C. Gooseberry

D. Litchi

Answer: D

Watch Video Solution

53. Blood group AB has

A. No antigen

B. No antibody

C. Neither antigen nor antibody

D. Both antigen and anitbody

Answer: B

Watch Video Solution

54. Which of the following is a flowering plant with nodules containing filamentous nitrogen-fixing microorganism

A. Casuarina equisetifolia

B. Crotalaria juncea

C. Cycas revoluta

D. Cicer arietinum

Answer: A

Watch Video Solution

55. Mammary glands are modification of

A. Sweat gland

B. Salivary glands

C. Lacrimal gland

D. None of these

Answer: A

Watch Video Solution

56. Which of the following plant material is widely used in the preparation of culture medium

A. Pinus longifolia

B. Cocos nucifera

C. Borassus flabellifer

D. Cycas revoluta

Answer: B

Watch Video Solution

57. Which of the following show higher rate of respiration

A. Collenchyma

B. Leaf

C. Dry seeds

D. Germinating seeds

Answer: D

Watch Video Solution

58. The main function of lacteals in the human small intestine is the absorption of

A. Glucose and vitamins

B. Amino acids and glucose

C. Water and vitamins

D. Fatty acids and glycerol

Answer: D

Watch Video Solution

59. Hammerling's experiments of Acetabularia involved exchanging

A. Cytoplasm

B. Nucleus

C. Rhizoid and stalk

D. Gametes

Answer: C

Watch Video Solution

60. Alpha diversity is biodiversity present

A. Within community

B. Between community

C. Ranges of communities

D. All the above

Answer: A

Watch Video Solution

61. The Ranthambore National Park is located in

A. Maharashtra

B. Rajasthan

C. Gujarat

D. U.P.

Answer: B

Watch Video Solution

62. Mycorrhiza is a symbiotic association between

A. Bacteria and fungi

B. Algae and fungi

C. Fungi and roots of higher plants

D. Blue green algae and roots of higher plants

Answer: C

Watch Video Solution

63. Adrenaline directly affects

A. S.A node

B. β- cells of Langerhans

C. The dorsal root of spinal cord

D. Epithelial cells of stomach

Answer: A

Watch Video Solution

64. Which is correct pair for edible part ?

A. Tomato-Thalamus

B. Maize-Cotyledons

C. Guava-pericarp

D. Date palm - Mesocarp

Answer: D

Watch Video Solution

65. Reproducing new plants by cells instead of seeds is known as

A. Mutation

B. Tissue culture

C. Antibiotics

D. Biofertilizer

Answer: B

Watch Video Solution

66. Who discovered "ribosomes" in animal cells

A. Watson

B. Temin

C. Chaudhary

D. Palade

Answer: D

Watch Video Solution

67. GIFT involves transfer of

A. A mixture of sperms and ova into the uterus

B. Embryo into the uterus

C. A mixture of sperms and ova into the fallopian tube

D. Zygote into the fallopian tube

Answer: C

Watch Video Solution

68. Contractile vacuole of Amoeba placed in salt water will

A. Burst

B. Disappear

C. Enlarge

D. Multiply

Answer: B

Watch Video Solution

69. Eutrophication is caused by

A. Phosphate rocks only

B. Agricultural fertilizers only

C. Sewage and phosphate rocks

D. Sewage and agricultural fertilizers

Answer: D

Watch Video Solution

70. When you hold your breath, which of the following gas changes in blood would first lead to the urge to breathe

A. Falling O_2 concentration

B. Rising CO_2 concentration

C. Falling CO_2 concentration

D. Rising CO_2 and falling O_2

Answer: B

Watch Video Solution

71. Weberian ossicles are found in

A. Frogs

B. Snakes

C. Fishes

D. Birds

Answer: C

Watch Video Solution

72. In Drosophila, the allele for normal grey body colour (G) is dominant to the ebony body (g). The following table summarises the results of several crosses:

Cross	Result
Strain 1 × gg	All Grey type
Strain 2 × gg	1 Grey : 1 ebony
Strain 3 × gg	All ebony type
Strain 4 × Gg	3 Grey : 1 ebony

Which strains have the genotype Gg?

A. 1 and 3

B. 1 and 4

C. 2 and 3

D. 2 and 4

Answer: D

Watch Video Solution

73. Which type of mouthpart is present on the lateral side of the pre-oral cavity in cockroach?

A. Labrum and mandibles

B. Mandibles and labium

C. Mandibles and 1^{st} maxillae

D. Mandibles and hypopharynx

Answer: C

Watch Video Solution

74. The biomass available for consumption by the herbivores and the decomposers is called

A. Net primary productivity

B. Secondary productivity

C. Standing crop

D. Gross primary productivity

Answer: A

Watch Video Solution

75. Which of the following wavelength of light is absorbed maximum for photosynthesis

or

Chlorophyll A absorbs max of

A. Red light

B. Blue light

C. Green light

D. Yellow light

Answer: B

Watch Video Solution

76. Cytochrome oxidase contain

A. Fe

B. Hg

C. Co

D. Mo

Answer: A

Watch Video Solution

77. Tetanolysin is produced by

A. Mycobacterium leprae

B. clostridium botulinum

C. Clostridium tetani

D. None of these

Answer: C

Watch Video Solution

78. What is true about Nereis, scorpion, cockroach and silver fish ?

A. They all possess a dorsal heart

B. None of them is aquatic

C. They all belong to the same phylum

D. They all have jointed paired

Answer: A

Watch Video Solution

79. Passive absorption of water is related to all ,except

A. Apoplastic pathway

B. Transpiration pull plays the major role

C. Development of a positive pressure in xylem

D. Water absorption through the roots

Answer: C

Watch Video Solution

80. Emerson's enhancement effect and red drop have been instrumental in the discovery of

A. Photophosphorylation and non cyclic electron transport

B. Two photosystems operating simultaneously

C. photophosphorylation and cyclic electron transport

D. oxidative phosphorylation

Answer: B

Watch Video Solution

81. Biopiracy means

A. Use of biopatents

B. Thefts of plants and animals

C. Stealing of bioresources

D. Exploitation of bioresources with out authentic permission

Answer: D

Watch Video Solution

82. The chief water conducting elements of xylem in gymnosperms are

A. Vessels

B. Fibers

C. Transfusion tissue

D. Tracheids

Answer: D

Watch Video Solution

83. When a cell is plasmolysed, it becomes

A. Flaccid and its TP becomes zero

B. Turgid and its becomes zero.

C. Turgid and TP becomes equal to OP

D. Flaccid and DPO becomes zero

Answer: A

Watch Video Solution

84. Khorana got the Nobel Prize on

A. t-RNA

B. Genetic code

C. Carbohydrate metabolism

D. Protein synthesis

Answer: B

Watch Video Solution

85. Gause's principle of competitive exclusion states that:

A. More abundant species will exclude the less abundant species through competition

B. Competition for the same resources excludes species having different food preferences

C. No two species can occupy the same niche indefinitely for the same limiting resources

D. Larger organisms exclude smaller ones through competition

Answer: C

Watch Video Solution

86. In tissue culture medium, the embryoids formed from pollen grains is due to

A. Cellular totipotency

B. Organogenesis

C. Double fertilization

D. Test-tube culture

Answer: A

Watch Video Solution

87. In humans, the embryo is protected in

A. Amniotic cavity

B. Peritoneal cavity

C. Pleural cavity

D. Allantois

Answer: A

Watch Video Solution

88. Select the correct statement regarding protein synthesis :

A. When the small subunit of the ribosome encounters an mRNA the process of translation begins

B. Peptidase catalyses the formation of peptide bond

C. UTRs are present between the start

D. At the end of translation the releases factor binds to the initiation codon

Answer: A

Watch Video Solution

89. Chloride shift occurs in response to

A. HCO_3^-

B. K^+

C. H^+

D. Na^+

Answer: A

Watch Video Solution

90. An antiviral chemical produced by the animal cell is

A. Virion

B. Interferon

C. Repressor protein

D. Hormone

Answer: B

Watch Video Solution

Biology

1. _____ is used to speed up the malting process in the brewing industry.

A. GA_1

B. GA_2

C. GA_3

D. GA_4

Answer: C

Watch Video Solution

2. Identify the following statements as true (T) or false (F) for genetic diversity and select the correct option :

(A) Genetic diversity is a diversity shown by a single species at genetic level

(B) It is total genetic information contained in all individuals of a community.

(C) Rauwolfia vomitoria shows the variation in the term of concentration of active chemical reserpine.

(D) India has more than 50000 genetically different strains of mango.

A. (A-T), (B-T) , (C -F) , (D - F)

B. (A - T) , (B - F) , (C -T), (D - F)

C. (A-F) , (B - F) , (C - T) , (D - T)

D. (A- F) , (B - F) , (C - T) , (D - T)

Answer: B

Watch Video Solution

3. In flowering plants, meiosis takes place during

A. Seed germination

B. Bud formation

C. Formation of pollen grains

D. Formation of root tip

Answer: C

Watch Video Solution

4. C_2 cycle is studied in

A. C_4 plants

B. Those showing photorespiration

C. Both C_4 plants and those showing photorespiration

D. None of the above

Answer: B

Watch Video Solution

5. Which of the following statement is correctly paired?

A. Zn^{2+}-It is an activator of nitrogenase during nitrogen fixation.

B. Mo- Activator of alcohol dehydrogenase

C. Mg^{2+}- Activator of phosphoenol pyruvate carboxylase

D. Cu- Activator of RuBisCo

Answer: C

Watch Video Solution

6. The back flow of faecal matter in the large intestine is prevented by the presence of

A. Sphincter of Oddi

B. Ileo-caecal valve

C. Gastric-oesophageal sphincter

D. pyloric sphincter

Answer: B

Watch Video Solution

7. Which of the following is correct with respect to the sperms of fertile males ?

A. At least 40% of sperms must have a normal shape and size

B. At least 60% of sperms must have motility

C. At least 60% of sperms must have a normal shape and size.

D. Both (A) and (B)

Answer: C

Watch Video Solution

8. Which of the following statement /s is / are correct for aerobic muscles ?

A. Such muscle contains red coloured oxygen storing pigment called myoglobin.

B. Such muscles contain a large number of mitochondria

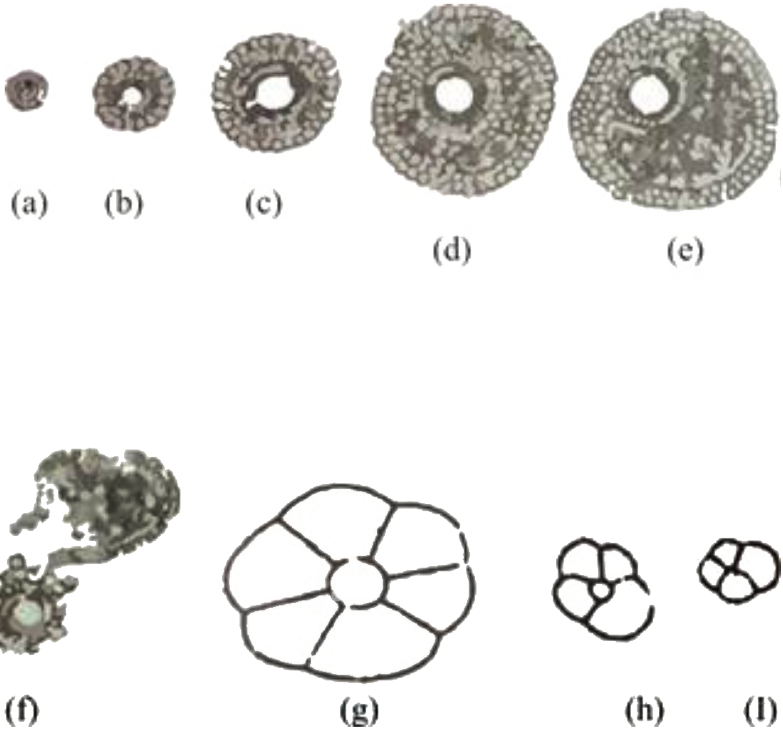
C. They are also called red fibres

D. All of these

Answer: D

Watch Video Solution

9. The following is the illustration of the sequence of ovarian events "a" to "l" in a human female :



Identify developing follicle, mature follicles and corpus luteum.

A. (a) to (d) - mature follicle , (e) to (f) developing follicle , (g) - (l) corpus luteum

B. (a) to (d) - developing follicle ,(e) to (f) mature follicle, (g) - (l) corpus luteum

C. (a) to (d) - corpus luteum (e) to (f) mature follicle , (g) - (l) developing follicle

D. None of these

Answer: B

Watch Video Solution

10. In the electron transport system present in the inner mitochondrial membrane, complexes I and IV are respectively

A. NADH dehydrogenase and $FADH_2$

B. $NADH_2$ and NADH dehydrogenase

C. NADH dehydrogenase and cytochrome-c oxidase complex

D. NADH dehydrogenase and ATP synthase

Answer: C

Watch Video Solution

11. Which of the following is known as living fossil

A. Locusta

B. Dentalium

C. Limulus

D. Ascidia

Answer:

Watch Video Solution

12. Which of the following is a common characteristic between earthworm, leech, and a centipede ?

A. They have Malpighian tubules

B. They are hermaphrodite

C. They have a ventral nerve cord

D. They have no legs

Answer: C

Watch Video Solution

13. Emergency contraceptives are effective if used within

A. 72 hrs of coitus

B. 72 hrs of ovulation

C. 72 hrs of menstruation

D. 72 hrs of implantation

Answer: A

Watch Video Solution

14. Chronic disorder in which alveolar walls are damaged is

A. Asthma

B. Emphysema

C. Occupational respiratory disorders

D. Pneumonia

Answer: B

Watch Video Solution

15. The main function of phloem is translocation of

A. Water

B. Mineral

C. Air

D. Food

Answer: D

Watch Video Solution

16. BOD is

A. Directly proportional to the amount of organic waste.

B. Directly proportional to the amount of DO

C. Inversely proportional to the amount of DO.

D. Both (A) and (C)

Answer: D

Watch Video Solution

17. A transgenic food crop which may help in solving the problem of night blindness in developing countries is

A. Flavr Savr tomatoes

B. Starlink maize

C. Bt Soybean

D. Golden rice

Answer: D

Watch Video Solution

18. A plant cell that has the potential to develop into a full plant is called

A. Totipotency

B. Unipotency

C. Multipotency

D. Regeneration

Answer: A

Watch Video Solution

19. Generative cell was destroyed by laser but a normal pollen tube was still formed because

A. Vegetative cell is not damaged

B. Laser beam stimulates growth of pollen tube

C. Contents of killed generative cell stimulate pollen growth

D. None of the above

Answer: A

Watch Video Solution

20. The frequency of recessive allele in a population is 0.2. The number of heterozygotes in a population of 500 is

A. 150

B. 240

C. 160

D. 64

Answer: C

Watch Video Solution

21. What is correct about self-incompatibility ?

A. It is due to the non-synchronization of pollen release and stigma receptivity

B. It is a genetic mechanism

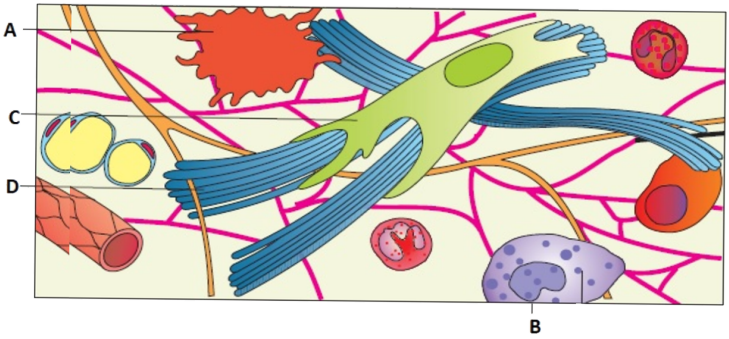
C. It is seen only in unisexual flowers.

D. It is due to the placement of anther and stigma at different positions.

Answer: B

Watch Video Solution

22. In the given diagram of areolar connective tissue, identify parts labeled A-D.



A. A Mast cell B Macrophage C Fibroblast D Collagen fibres

B. A Macrophage B Mast cell C Fibroblast D Collagen fibres

C. A Macrophage B Mast cell C Collagen fibres D Fibroblast

D. A Mast cell B Macrophage C Collagen fibres D Fibroblast

Answer: B

Watch Video Solution

23. What is true about ribosomes

A. The prokaryotic ribosomes are 80S, where "S"stands for sedimentation differentiation.

B. These are composed of ribonucleic acid and proteins.

C. These are found only in eukaryotic cells.

D. These are self-splicing introns of some RNAs

Answer: B

Watch Video Solution

24. Which of the following is the Pribnow box?

A. 5'TATAAT 3'

B. 5' TAATTA 3'

C. 5' AATAAT 3'

D. 5' ATATTA 3'

Answer: A

Watch Video Solution

25. Every 100ml deoxygenated blood delivers around ____ CO_2 to alveoli

: —

A. 20 ml

B. 4 ml

C. 5 ml

D. 25 ml

Answer: B

Watch Video Solution

26. Choose the correct statement.

A. Vasa recta is well developed in cortical nephrons

B. The PCT and DCT are situated in the medulla of the kidney

C. The glomerulus enclosed the Bowman's capsule

D. The ascending limb of the Henle's loop extends as the DCT

Answer: D

Watch Video Solution

27. The chemical released by Penicillium notatum inhibited the growth of which microbe?

A. Clostridium

B. Streptomyces

C. Staphylococci

D. Saccharomyces

Answer: C

Watch Video Solution

28. For bacterial cell which divides in every 1 minute, it takes one hour to fill up a cup. How much time will be taken to fill half the cup?

A. 59 minutes

B. 30 minutes

C. 60minutes

D. 20 minutes

Answer: A

Watch Video Solution

29. The breeding of the unrelated animals, which may be between individuals of the same breed but having no common ancestors for 4-6 generations is called

A. Inbreeding

B. Cross-breeding

C. Out-crossing

D. Inter-specific hybridization

Answer: C

Watch Video Solution

30. Flowers are zygomorphic in :-

A. Aloe

B. Indigofera

C. Solanum nigrum

D. Colchicum

Answer:

Watch Video Solution

31. Both the lobes of thyroid gland are interconnected with

A. Connective tissue called the stromal tissue

B. Connective tissue called the thyroid tissue

C. Connective tissue called follicle tissue

D. Connective tissue called the isthmus tissue

Answer: D

Watch Video Solution

32. Which of the following statements is correct regarding foetal development in humans?

A. By the end of the first month of pregnancy, the foetus develops limbs and digits

B. By the end of 12 weeks (second trimester), most of the major organ systems are formed .

C. The first movements of the foetus and appearance of hair on the head is usually observed during the fifth month.

D. By the end of about 26 weeks (end of the second trimester), the body is covered with fine hair, eye-lids separate, and eye lashes are formed.

Answer: C

 Watch Video Solution

33. Desert plants are generally

A. Viviparous

B. Succulent

C. Herbaceous

D. Heterophyllus

Answer: B

Watch Video Solution

34. Ideal cloning vector should have

A. Restriction sites

B. Selectable marker

C. Origin of replication

D. All of these

Answer: D

Watch Video Solution

35. Which one of the following pairs is not correctly matched ?

A. Recombinant DNA- DNA formed by the joining of segments of DNA from different sources

B. Purine - Nitrogenous bases cytosine, thymine and uracil

C. ATP- The principal energy carrying compound in the cell

D. r-RNA- RNA molecules found in ribosomes

Answer: B

Watch Video Solution

36. Wine is prepared by fermentation of grape juice by

A. Bacillus liquifaciens

B. Penicillium roqueforti

C. Saccharomyces cerevisiae

D. Streptococcus aureus

Answer: C

Watch Video Solution

37. Synapsides evolved around

A. 500 mya

B. 300mya

C. 650 mya

D. 800mya

Answer: B

Watch Video Solution

38. Which of the following pigments is purplish-red and contains a vitamin derivative?

A. Rhodopsin

B. lodopsin

C. Melanin

D. None of the above

Answer: A

Watch Video Solution

39. Bast fibres are made up of

A. Parenchyma cells

B. Collenchyma cells

C. Sclerenchyma cells

D. Chlorenchyma cells

Answer: C

Watch Video Solution

40. Which of the following does not happen during embryogenesis?

A. Cell multiplication

B. Cell differentiation

C. Equation division

D. Reduction division

Answer: D

Watch Video Solution

41. All the following statements are correct, except

A. Interphase is the shortest period of cell cycle

B. Cell growth, in terms of cytoplasmic increase, is a continuous process

C. Cycles of growth and division allow a single cell to form a structure consisting of millions of cell

D. The replicated DNA are distributed to daughter nuclei by a complex series of event during cell division.

Answer: A

Watch Video Solution

42. The following statements are given about different plant growth hormones :

I. Cytokinin suppresses the synthesis of chlorophyll.

II. Auxins control apical dominance.

III. Gibberellins promote shoot elongation.

IV. Abscisic acid enables seeds to withstand desication.

Which of the above statements are correct?

A. I and II

B. II and III

C. I and III

D. II,III and IV

Answer: D

Watch Video Solution

43. Which of the following will decay faster?

A. Sapwood

B. Softwood

C. Wood with lot of fibres

D. Heartwood

Answer: A

Watch Video Solution

44. A high density of tiger population in an area can result in :

A. Migration

B. Interspecific competition

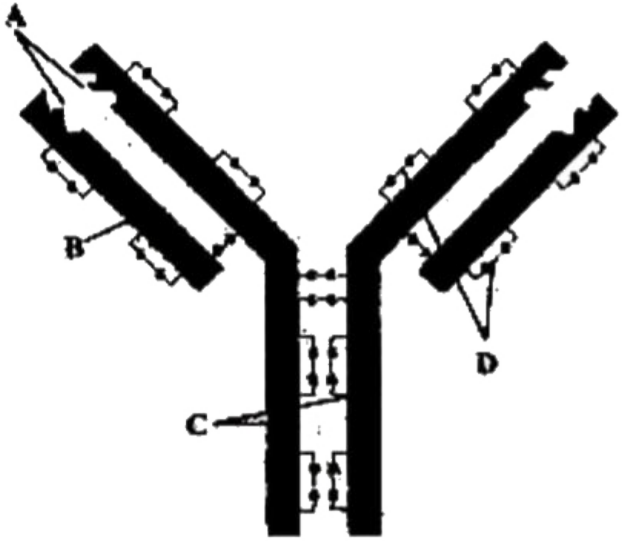
C. Intraspecific competition

D. Protocooperation

Answer: C

Watch Video Solution

45. Choose the option which rightly labels A,B, C and D in the figure given



A. A-light chains,B-heavy chain, C-antigen binding sites, D-disulphide bonds

B. A-disulphide bonds, B-antigen binding site, C-heavy chains, D-light chains

C. A-antigen binding sites, B-light chain, C-heavy chains,D-disulphide bonds

D. A-antigen binding sites, B-disulphide bonds, C-light chains, D-heavy chains

Answer: C

Watch Video Solution

46. In the electron transport system, a molecule of ATP is formed when an electron passes from :

A. Cytochrome -c to cytochrome-a

B. Cytochrome-a to cytochrome -c

C. Cytochrome-b to cytochrome-c_1

D. Cytochrome-c to cytochrome-b

Answer: C

Watch Video Solution

47. In the wall of alimentary canal which is the true sequence from outer to inner side

A. Serosa, longitudinal muscle, mucosa, submucosa

B. Mucosa, serosa, longitudinal muscle

C. Serosa, longitudinal muscle, circular muscle, submucosa, mucosa

D. Serosa, circular muscle, submucosa, mucosa

Answer: C

Watch Video Solution

48. Read the following sentences :

(a) In elution, the separated bands of DNA are cut out from agarose gel & extracted from the gel piece.

(b) E coil cloning vector pBR322 have several restriction sites, Ori, antibiotic resistance genes & ROP.

(c) The downstream processing and quality control testing vary from

product to product.

(d) Competent bacterial cells cannot take up the plasmid.

A. All are correct

B. Only (b) is correct

C. Only (d) is correct

D. All are incorrect

Answer: A

Watch Video Solution

49. Which of the following statements is false?

A. Aqueous humor leak out by canal of schlemm into blood capillaries and again reach upto their veins.

B. A transparent, biconvex lens is present just after iris.

C. Iris divides the vitreous chamber into two parts, anterior chamber and posterior chamber.

D. Aqueous and vitreous humor both the fluids are secreted by the glands of ciliary body.

Answer: C

Watch Video Solution

50. During ventricular systole

A. Oxygenated blood is pumped into the pulmonary artery and deoxygenated blood is pumped into the artery

B. Oxygenated blood is pumped into the aorta and deoxygenated blood is pumped into the pulmonary vein

C. Oxygenated blood is pumped into the pulmonary vein and deoxygenated blood is pumped into the pulmonary artery

D. Oxygenated blood is pumped into the aorta and deoxygenated blood is pumped into the pulmonary artery

Answer: D

Watch Video Solution

51. Which of the following is correct regarding glycolysis ?

A. It occurs in the cytoplasm of the cell.

B. Hydrogen atoms are removed from NAD^+ and transferred to PGAL.

C. ATP is consumed during the conversion of PEP to pyruvic acid.

D. Conversion of BPGA to PGA is an energy-yielding process.

Answer:

Watch Video Solution

52. Which one of the following statements is correct for secondary succession?

A. It begins on a bare rock.

B. It occurs on a deforested site.

C. It follows primary succession.

D. It is similar to primary succession except that it has a relatively fast pace.

Answer: B

Watch Video Solution

53. During ionic flux, uptake of ions into inner space is

A. Active

B. Passive

C. Energy-dependent

D. Both active and energy-dependent

Answer: B

Watch Video Solution

54. Which of the following factors play a role in primary productivity?

A. Light and temperature

B. Water and nutrients

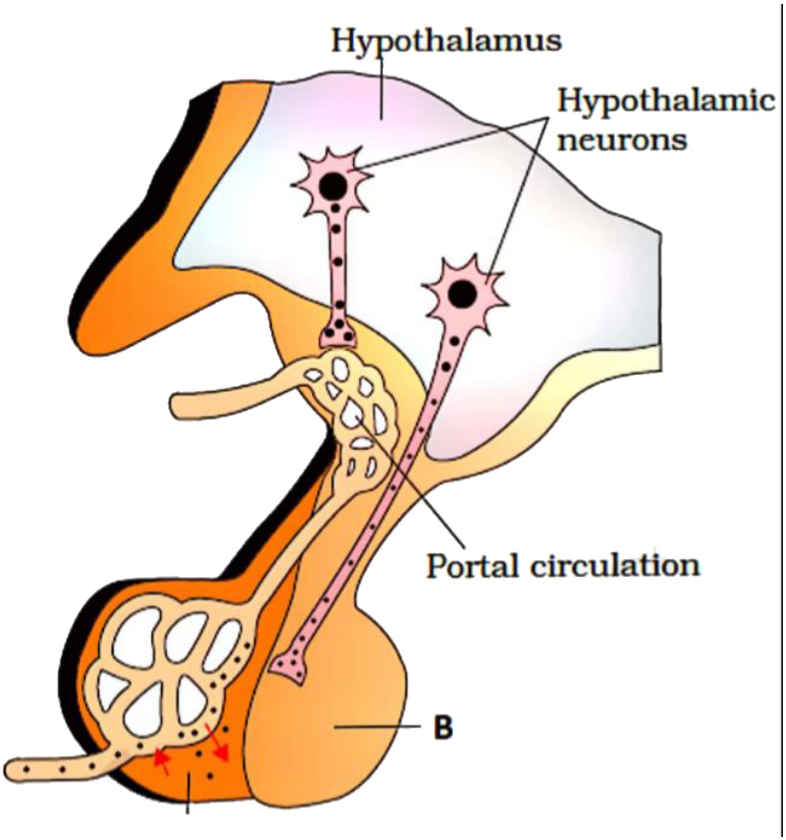
C. Photosynthetic capacity of producers

D. All of these

Answer: D

Watch Video Solution

55. Which of the following hormones pass-through "route-B" in the given figure ?



A. Oxytocin and vasopressin

B. TSH and prolactin

C. GnRH and somatostatin

D. GH and gonadotropis

Answer: A

Watch Video Solution

56. Find out wrong statement regarding Cycas.

A. It has an unbranched stem.

B. It possesses pinnately compound leaves

C. It is a dioecious plant.

D. It is a non-archegonial plant

Answer: D

Watch Video Solution

57. Variable number of tandem repeats (VTNRs) in the DNA molecule are highly useful in :

A. Monoclonal antibody production

B. DNA fingerprinting

C. Recombinant DNA technology

D. Stem cell culture

Answer: B

Watch Video Solution

58. Parturition is induced by

A. A complex neuroendocrine mechanism

B. A neuroexocrine mechanism

C. A physio-chemical mechanism

D. None of the above

Answer: A

Watch Video Solution

59. All the following involves osmosis, except

A. Water entering from soil to root hair

B. Water passing from root hair to adjacent cells

C. Water movement into the xylem vessel element.

D. Water entering a mesophyll cell from xylem vessel element

Answer: C

Watch Video Solution

60. When fungi feed on dead organic matter, they are known as

A. Dimorphic

B. Parasites

C. Saprophytes

D. None of these

Answer: C

Watch Video Solution

61. Consider the following statements and select the option stating which ones are true (T) and which ones are false (F)

(i) Abortions could happen spontaneously too

(ii) Infertility is the inbability to produce viable offspring due to defects in the female partner only.

(iii) Complete lactation could help in contraception

(iv) Creating awareness can help to create a reproductively healthy society.

A. $\begin{matrix} i & ii & iii & iv \\ F & F & T & T \end{matrix}$

B. $\begin{matrix} i & ii & iii & iv \\ F & T & F & T \end{matrix}$

C. $\begin{matrix} i & ii & iii & iv \\ T & F & T & T \end{matrix}$

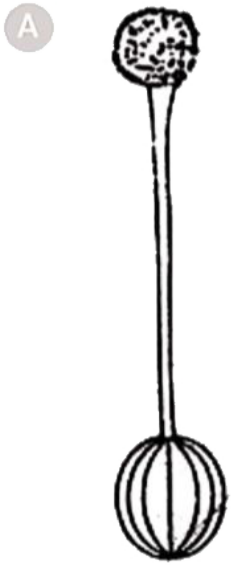
D. $\begin{matrix} i & ii & iii & iv \\ T & T & F & F \end{matrix}$

Answer: C

Watch Video Solution

62. Which of the following type of gynoecium is associated with wind pollination

A.



B.

C.

D.

Answer: B

Watch Video Solution

63. A reduction in the quantity of oxygen evolution during photosynthesis may be observed at

A. Light having wavelength more than 680 nm

B. Light having wavelength less than 680 nm

C. Light having wavelength 560nm

D. Light having wavelength less than 360nm

Answer: A

Watch Video Solution

64. Read the below given statements with respect to three important steps of decomposition: Fragmentation, leaching and catabolism. select the correct option.

(i) Detritivores (e.g., earthworm) breakdown detritus into smaller particles.

(ii) Water soluble inorganic nutrients go down into soil horizon and get

precipitated as unavailable salts.

(iii) Decomposers (e.g., bacteria and fungi) secrete digestive enzymes and degrade detritus into simpler inorganic substances.

A. B

B. A

C. C

D. D

Answer: C

Watch Video Solution

65. The correct statements about the working of oral pills are:

(i) Inhibit ovulation and implantation

(ii) Alter the quality of cervical mucus to prevent or retard the entry of sperms

(iii) Inhibit spermatogenesis

A. I,II and III

B. I and II

C. II only

D. III only

Answer: B

Watch Video Solution

66. Species diversity generally increases as one proceeds from

A. Low altitude to high altitude, and from low latitudes to high latitudes

B. High altitude to low altitude, and from low latitudes to high latitudes

C. High altitude to low altitude, and from high latitudes to low latitudes

D. Low altitude to high altitude, and from high latitudes to low latitudes

Answer: C

Watch Video Solution

67. In tissue culture experiments of tobacco callus, it was seen that when the culture medium contains 2 ppm of IAA and 2ppm of kinetin, an undifferentiated mass of callus is produced. If the ratio of kinetin to IAA is increased, then

A. The callus size would increase by repeated cell divisions

B. Root initiation would take place

C. Shoot initiation would occur

D. The callus would die

Answer: C

Watch Video Solution

68. In human beings, the color of skin is controlled by

A. Multiple alleles

B. Lethal genes

C. Polygenic effect

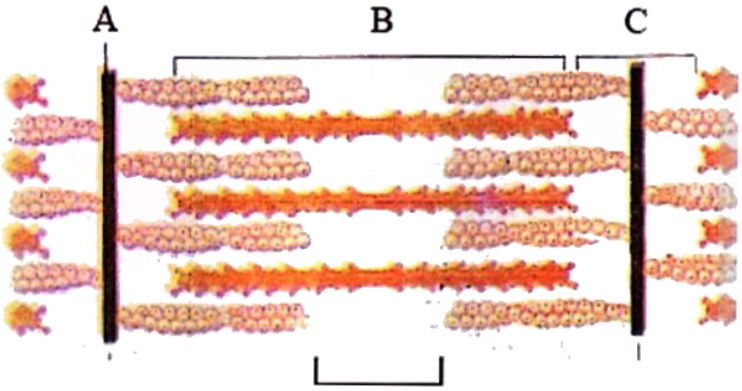
D. None of these

Answer: C

Watch Video Solution

69. Given below is the diagrammatic representation of a sarcomere. Mark the option with a correct description of the structure labelled as A, B ,C

and D in the same.



A. A- Elastic fibre that bisects I-band

B-Width of this band reduces during muscle contraction

B. B-Consists of myosin filaments

C- Width of this band remains same during muscle contraction

C. C-Light band that contains actin filaments

D- Don't exist when the sacromere get contracted maximally

D. A-Z - line to which thin filaments are firmly attached

D-H - zone which can be seen in a maximally contracted muscle fiber also

Answer: C

Watch Video Solution

70. A nematode Meloidogyne infects the roots of tobacco plants and causes a great reduction in the yield. A novel strategy was adopted to prevent this infestation which was based on the process of

A. RNAi

B. mRNA silencing

C. Anti-sense RNA technology

D. All of these

Answer: A

Watch Video Solution

71. Which one of the following is correctly matched?

A. Ginger-Sucker

B. Chlamydomonas -Conidia

C. Yeast-Zoospores

D. Onion-Bulb

Answer: D

Watch Video Solution

72. Transgenic crops are modified through genetic engineering to develop natural resistance to insect pests. Which of these pairs consist of transgenic crops?

A. Bt Tobacco and Bt Cotton

B. Tomato and Bt rice

C. Maize and sugarcane

D. Bt Tomato and Wheat

Answer: A

Watch Video Solution

73. Given below is a list of various diseases / disorders.

a. Phenylketonuria, b. Grave's disease, c. Thalassemia, d. Rheumatoid arthritis, e. Myasthenia gravis, f. Colour blindness, g. Blindness

Which one of the following represents hereditary disease ?

A. a,b,d, and e

B. a,c,f and g

C. c,f, and g

D. a,c and f

Answer: B

Watch Video Solution

74. Which of the following set of coenzymes are nucleotides of vitamin niacin?

A. NAD, NADP

B. FMN,FAD

C. ATP,ADP

D. ATP,FAD

Answer: A

Watch Video Solution

75. The classification of organisms based on chromosome number is called

A. Cytotaxonomy

B. Numerical taxonomy

C. Karyotaxonomy

D. Biochemistry

Answer: A

Watch Video Solution

76. Biological oxygen demand (BOD) is a measure of

A. Industrial wastes poured into water bodies

B. Extent to which water is polluted with organic compounds

C. Amount of carbon monoxide inseparably combined with haemoglobin

D. Amount of oxygen needed by green plants during night

Answer: B

Watch Video Solution

77. Which of the following statement / s is / are correct about crack?

A. It interferes with transport of neutrotransmitter dopamine.

B. It produces a sense of euphoria

C. Excessive dosage causes hallucinations.

D. All of these

Answer: D

Watch Video Solution

78. In many cells ribosomes occur in chains along messenger RNA. What is the advantage of this arrangement as compared to a situation in which ribosomes occur singly?

A. Fewer tRNA molecules are used in protein synthesis

B. Polypeptides can be produced more easily.

C. A greater variety of polypeptides can be produced

D. Probability of gene mutation occurring is less

Answer: B

Watch Video Solution

79. $NADP^+$ is reduced to NADPH in

A. Cyclic photophosphorylation

B. In PS II

C. Calvin cycle

D. Non-cycle photophosphorylation

Answer:

Watch Video Solution

80. Which type of white blood cells are concerned with the release of histamine and the natural anticoagulant heparin ?

A. Neutrophils

B. Basophils

C. Eosinophils

D. Monocytes

Answer: B

Watch Video Solution

81. The macronutrient which is an essential component of all organic compounds, yet not obtained by plants from soil is

A. Nitrogen

B. Carbon

C. Phosphorous

D. Magnesium

Answer: B

Watch Video Solution

82. Water potential in leaf tissue is 'positive' (near zero) during

A. Excessive transpiration

B. Low transpiration

C. Excessive absorption

D. Guttation

Answer: D

Watch Video Solution

83. The living component of phloem tissue is

A. Sieve tube

B. Companion cells

C. Bast parenchyma

D. All of these

Answer: D

Watch Video Solution

84. Taxonomy refers to

A. Plant classification

B. Plant nomenclature

C. Plant affinity

D. All of these

Answer: D

Watch Video Solution

85. Which among the following is the most abundant protein in animal world

A. Haemoglobin

B. Keratin

C. RuBisCO

D. Collagen

Answer: D

Watch Video Solution

86. Select the wrong statement from the following

A. Both chloroplasts and mitochondria have an internal compartment, bounded by the thylakoid membrane.

B. Both chloroplasts and mitochondria contain DNA.

C. The chloroplasts are generally much larger than mitochondria

D. Both chloroplasts and mitochondria contain an inner and an outer membrane.

Answer: A

Watch Video Solution

87. The nephridia of earthworm are concerned with

A. Locomotion

B. Excretion of nitrogenous wastes

C. Digestion

D. Respiration

Answer: B

Watch Video Solution

88. Primary roots and its branches constitute

A. Tap root system

B. Adventitious root system

C. Tertiary root system

D. Fibrous root system

Answer: A

Watch Video Solution

89. 'Bhang' and 'Ganja' are

A. Extract of hemp plant -Cannabis sativa

B. Ripe poppy fruits and leaves

C. Dried leaves, flowers and buds of Cannabis indica plant

D. None of the above

Answer: A

Watch Video Solution

90. Which of the following are common freshwater fishes?

A. Mackerel and Rohu

B. Rohu, common carp and Catla

C. Hilsa and Sardine

D. None of these

Answer: B

Watch Video Solution

91. An undifferentiated layer, mesoglea, is present in

A. Fasciola

B. Ancylcostoma

C. Hirudinaria

D. Adamsia

Answer:

Watch Video Solution

92. A variety effective against shoot and fruit borer is

A. Pusa Gaurav

B. Pusa Sawani

C. Pusa Sem 2

D. Pusa Sem 3

Answer:

Watch Video Solution

93. Butyric acid is produced by

A. Aspergillus niger

B. Acetobacter aceti

C. Clostridium butylicum

D. Lactobacilus

Answer:

Watch Video Solution

94. Every 100 ml oxygenated blood can deliver around

A. 5 ml of O_2 to the alveoli

B. 5 ml of O_2 to the tissues

C. 4 ml of CO_2 to the tissues

D. 4 ml of CO_2 to the alveoli

Answer:

Watch Video Solution

95. Sometimes a few chromosomes have non-staining secondary constrictions at a constant location. This gives the appearance of small fragment called the

A. Satellite

B. Centromere

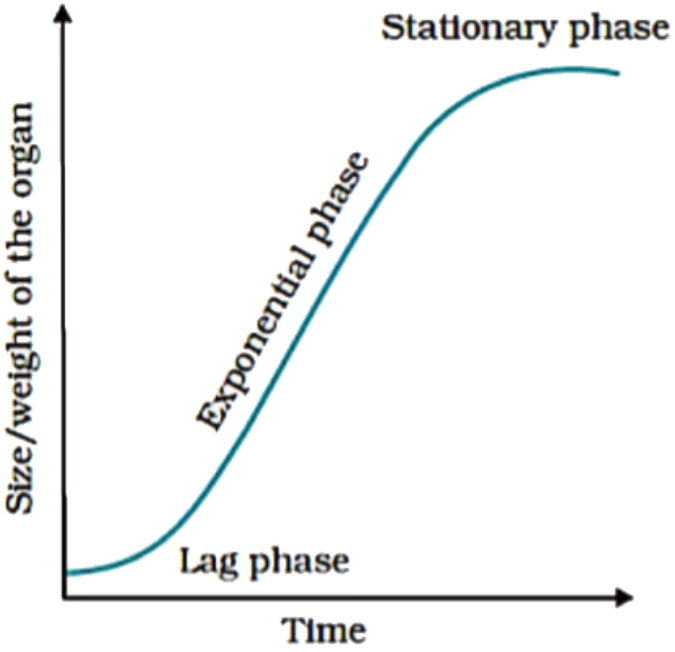
C. Telomere

D. Kinetochore

Answer:

Watch Video Solution

96. A growth curve of a plant is shown below. The mathematical expression for growth curve will be:



A. $L_t = L_0 + rt$

B. $W_1 = W_0 e^t$

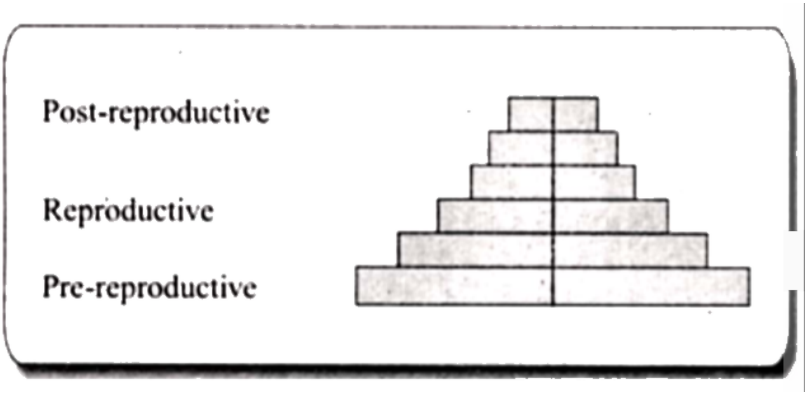
C. $W_1 = W_0 e^{rt}$

D. $L_t = L_0 + t$

Answer:

Watch Video Solution

97. The age pyramid for human population is shown below



Which of the following conclusion can be drawn from the given age pyramid?

A. It represents that the population is young the growing.

B. It is a pyramid of declining population

C. It shows that the population is stable.

D. It shows that the population size is fluctuating.

Answer:

Watch Video Solution

98. Aggreates of lymphoid tissue present in the distal portion of the small intestine are known as

A. Villi

B. Peyer's patches

C. Rugae

D. Choroid plexus

Answer:

Watch Video Solution

99. What is correct about the compound epithelium?

A. It is multi-layered

B. Its main function is protection against chemical and mechanical stress.

C. They cover inner lining of ducts of salivary glands.

D. all of these

Answer:

Watch Video Solution

100. Felidae and Canidae are examples of which taxonomical category?

A. Genus

B. Order

C. Family

D. Class

Answer:

Watch Video Solution

101. Which one of the following is not a micronutrient?

A. Molybdenum

B. Magnesium

C. Zinc

D. Boron

Answer:

Watch Video Solution

102. A scrubber in the exhaust of a chemical industrial plant removes:

A. Gases like SO_2.

B. Particulate matter of the size 5 μm or above.

C. Gases like ozone and methane.

D. Particulate matter of the size 2.5 μm or less.

Answer:

Watch Video Solution

103. Find incorrect statement w.r.t. pollen grains.

A. Generally spherical measuring about 25-50 micro meters

B. Exineless areas in pollen wall are called germ pore

C. The vegetative cell is bigger has abundant food reserves and a large irregularly shaped nucleus.

D. The generative cell has abundant cytoplasm and an irregular shaped nucleus

Answer:

Watch Video Solution

104. Which part of human brain is concerned with the regulation of body temperature?

A. Cerebellum

B. Cerebrum

C. Hypothalamus

D. Medulla oblongata

Answer:

Watch Video Solution

105. Vector for dengue and chikungunya is

A. Female Anopheles mosquito

B. Male anopheles mosquito

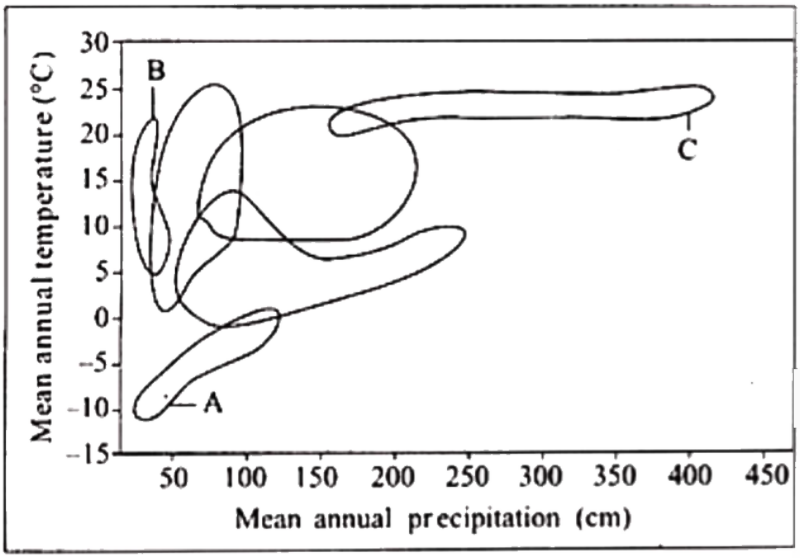
C. Culex mosquito

D. Aedes mosquito

Answer:

Watch Video Solution

106. The graph given below is showing biome distribution with respect to annual temperature and precipitation. Identify A, B and C, respectively.



A. A-Desert, B-Arctic tundra: C-Coniferous forest

B. A-Arctic tundra, B-Desert, C-Tropical forest

C. A-Temperate forest, B-arctic tundra, C-Desert

D. A-Temperate forest, B-Arctic tundra, C-Grassland

Answer:

Watch Video Solution

107. In EcoRl, the letter 'R' is derived from

A. Genus

B. Species

C. Strain

D. Class

Answer:

Watch Video Solution

108. Ascaris is characterized by

A. Absence of true coelom but presence of metamerism

B. Presence of neither true coelom nor metamerism

C. Presence of true coelom and metamerism

D. Presence of true coelom but the absence of metamerism

Answer:

Watch Video Solution

109. The anterior pitiuitary hormone that does not stimulate another endocrine gland is

A. somatotropin

B. Thyrotropin

C. Gonadotropin

D. Adrenocorticotropin

Answer:

Watch Video Solution

110. Mark the ODD one out.

A. Oxaloacetic acid

B. Malic acid

C. Citric acid

D. Succinic acid

Answer:

Watch Video Solution

111. Isogamous reproduction and flagellated gametes can be observed in

A. Polysiphonia

B. Fucus

C. Ulothrix

D. Spirogyra

Answer:

Watch Video Solution

112. Receptors with aortic arch and carotid artery can recognise changes in

A. Only CO_2 concentration in blood

B. H^+ and O_2 concentration in blood

C. CO_2 and H^+ concentration in blood

D. O_2 concentration in blood

Answer:

Watch Video Solution

113. Which of the following organisms are correctly paired with its life span?

A. Crow-15 years

B. Butterfly-3 weeks

C. Parrot-40 years

D. Crocodile-100-150 years

Answer:

Watch Video Solution

114. The packaging of chromatin at a higher level requires an additional set of proteins that collectively are rerferred to as

A. Histones

B. NHC proteins

C. Tubulin

D. Actin

Answer:

Watch Video Solution

115. Which of the following statement is incorrect?

A. Basmati rice is distinct for its unique aroma and flavour and 27 documented varieties of basmati are grown in india.

B. Biopiracy is the term used to refer to the use of bio-resources by multinational companies and other organizations without proper authorization from the coutries and people concerned without componsatory payment.

C. Transgenic animals that produce useful biological products can be created by the introduction of the portion of DNA (or genes) whih codes for a particular product such as human protein (alpha-1-antitrypsin) used to treat Phenylketonuria.

D. The indian government has set up organizations such as GEAC (Genetic Engineering Approval Committee), which will make

decisions regarding the validity of GM research and the safety of introducing GM-organisms for public services.

Answer:

Watch Video Solution

116. Select the incorrect statement regarding the transport of gases in the blood.

A. About 97% of O_2 is transported by RBCs in the blood.

B. Carbonic anhydrase is present in very high concentration in RBC

C. High pCO_2 and los pO_2 in tissue help in binding of carbon dioxide

D. CO_2 is carried in haemoglobin as carboxyhemoglobin

Answer:

Watch Video Solution

117. The mathematical expression of diffusion pressure deficit is

A. $DPD = OP - TP$

B. $DPD = OP + WP$

C. $DPD = WP - OP$

D. $DPD = TP + OP$

Answer:

Watch Video Solution

118. In which technique, to form embryo in the laboratory a sperm is directly injected into the ovum?

A. IVF-EF

B. ICSI

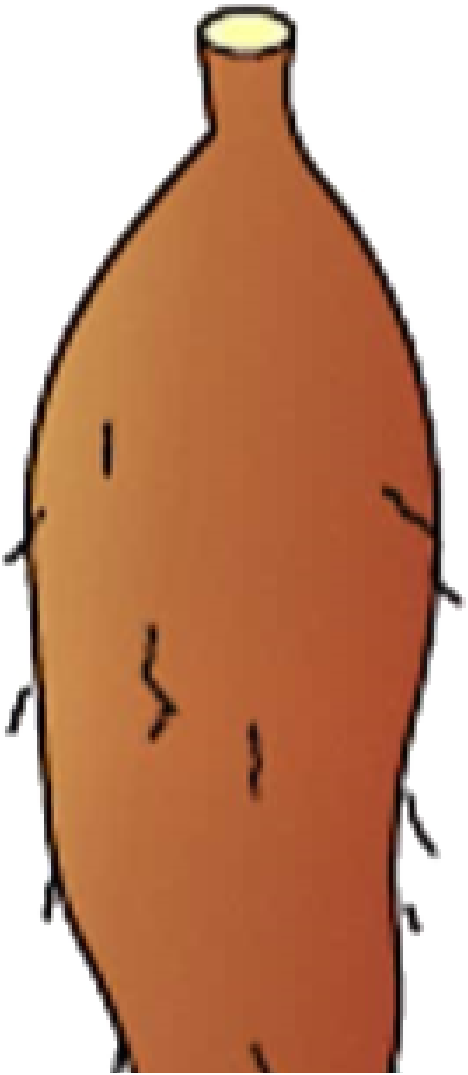
C. GIFT

D. IUI

Answer:

Watch Video Solution

119. Which kind of modification is seen in the given diagram?



A. Tap root for storage

B. Adventitious roots for supports

C. Adventitious root for storage

D. Tap root for respiration

Answer:

Watch Video Solution

120. Kingdom Plantae includes

A. Algae, Bryophtes and Pteridophytes only

B. Algae, Bryophtes, Pteridophytes, Gymnosperms and Angiosperms only.

C. Algae, Fungi, Pteridophytes, Gymnosperms and Angiosperms only.

D. Algae, Pteridophytes, Gymnosperms and Angiosperms only.

Answer:

Watch Video Solution

121. A change in the relative abundance of an allele (the allelic frequency) within a population, over a succession of generations, is called

A. Micro-evolution

B. Macro-evolution

C. Co-evolution

D. Phylogenetic evolution

Answer:

Watch Video Solution

122. "The formation of life was preceded by chemical evolution". This statement was given by,

A. Urey and Miller

B. Jacob and Monod

C. Fischer and Huxley

D. Oparin and Haldane

Answer: D

Watch Video Solution

123. Foetal ejection reflex is produced by

A. Fully developed foetus only

B. Placenta only

C. Fully devepoled foetus and placenta

D. Fully developed foetus, placenta and endometrium

Answer: C

Watch Video Solution

124. Algae used by Calvin and associated from photosynthetic research is

A. Chlorella

B. Chlamydomonas

C. Volvox

D. All the above

Answer:

Watch Video Solution

125. Biofertilizers include

A. Nitrogen fixing bacteria

B. Nitrogen fixing cyanobacteria

C. Mycorrhiza

D. All of these

Answer:

Watch Video Solution

126. The enzyme used to join the DNA fragments is :

A. Topoisomerase

B. Adenosine deaminase

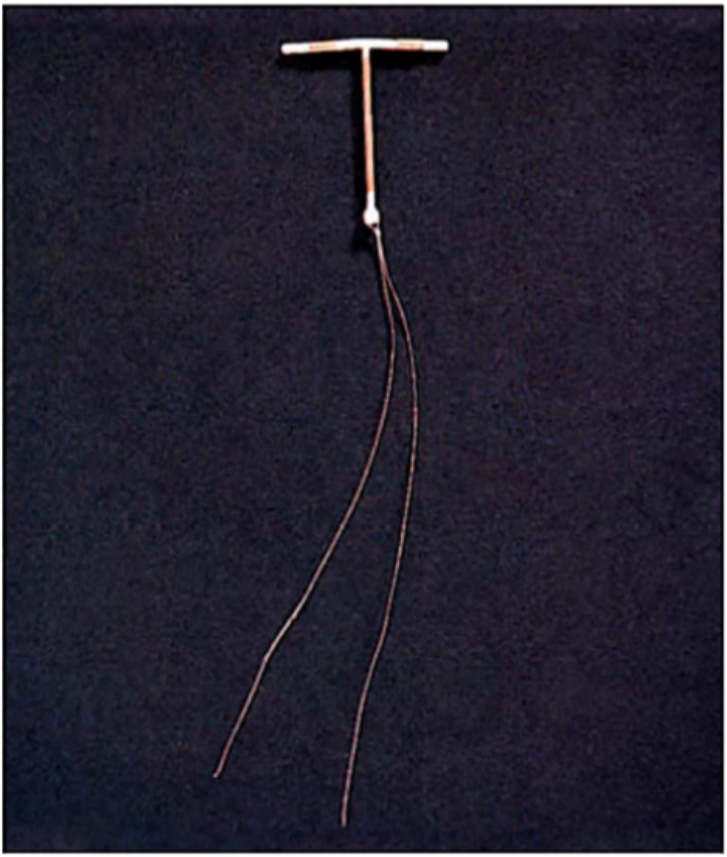
C. DNA ligase

D. DNA polymerase

Answer:

Watch Video Solution

127. What is correct about the contraceptive method shown in the diagram below?



A. It releases Ca ions that suppres sperm motility

B. It releases Cu ions that suppress sperm motility

C. It is a hormone-releasing IUDs, that make the uterus unsuitable for implantation.

D. It prevents the entry of sperm in the uterus.

Answer: B

Watch Video Solution

128. Uric acid is nitrogenous waste in

A. Birds and lizards

B. Insects and bony fishs

C. Frog and cartilaginous fishes

D. Mammals and molluscs

Answer:

Watch Video Solution

129. Holoenzyme is

A. Non-protein and apoenzyme

B. Protein and apoenzyme

C. Enzyme, protein and coenzyme

D. Enzyme, non-protein and coenzyme

Answer:

Watch Video Solution

130. Which of the following is grown to provide human food rich in proteins, lipids, carbohydrates, vitamins and minerals

A. Spirogyra

B. Ulothrix

C. Oscillatoria

D. Chlorella

Answer:

Watch Video Solution

131. What is an eye of potato?

A. Axillary bud

B. Accessory bud

C. Adventitious bud

D. Apical bud

Answer:

Watch Video Solution

132. The waste products produced in man are

A. Carbon dioxide

B. Urea and salts

C. Excess of water

D. All of these

Answer:

Watch Video Solution

133. Which type of organism are PPLO?

A. Virus

B. Viroid

C. Mycoplasma-like

D. Bacteria

Answer:

Watch Video Solution

134. Under what condition, the upright pyramid of biomass becomes inverted?

A. Grassland ecosystem

B. Terrestrial ecosystem

C. Pond ecosystem

D. Tree ecosystem

Answer:

Watch Video Solution

135. Mathc List I and List II and select the correct answer using the code given belwo in the lists:

List I (Phase of meiosis)	List II (Event that occurs)
Prophase I	Crossing over occurs
Metaphase I	Sister chromatids migrate to opposite poles
Anaphase I	Homologous line up at equator in pairs

A. 1,2 and 3 are correct

B. 1 and 2 are correct, 3 is false

C. 1 is correct, 2 and 3 are false

D. 1 and 3 are correct, 2 is false.

Answer:

Watch Video Solution

136. A root was described as adventitious root because it

A. Arose from plumule

B. Was used variously for storage of food

C. was swollen

D. Was growing in marshy place

Answer:

Watch Video Solution

137. Osmosis is the passage of water through a semipermeable membrane from

A. A higher concentration of water molecules to lower concentration

B. Lower concentration of water molecules to higher concentration

C. Equal concentration of water molecules

D. None of these

Answer:

Watch Video Solution

138. Which of the following strategy is not a correct approach to reduce global warming ?

A. Reducing the green-house gas emission by limiting the use of fossil fuels.

B. Increase the vegetation cover particularly the forest for photosynthetic utilization of CO_2.

C. Minimising the use of nitrogen fertilizers, in agriculture for reducing NO_2 emission.

D. Increasing the use of air conditoners, refrigeration units, and production of plastic.

Answer:

Watch Video Solution

139. Which type of cell division occurs in the gonads

A. Mitosis only

B. Meiosis

C. Both mitosis and Meiosis

D. Amitosis and meiosis

Answer:

Watch Video Solution

140. Gigantism and dwarfism are the disease related to

A. Prolactin hormone of mammary gland

B. Growth hormone of adenohypophysis

C. Luteinising hormone of pituitary gland

D. Thyroid stimulating hormone of thyroid

Answer:

Watch Video Solution

141. What is PAR range?

A. 200nm-800nm

B. 400nm-700nm

C. 350nm-550nm

D. 600nm-100nm

Answer:

Watch Video Solution

142. The respiratory quotient during cellular respiration would depend on

A. Nature of enzymes involved

B. Nature of the substrate

C. Amount of carbon dioxide released

D. Amount of oxygen utilized

Answer:

Watch Video Solution

143. Allergy is due to release of which of the chemical from mast cells and basophils?

A. Histamine

B. Heparin

C. Serotonin

A. A only

B. A & B

C. A & C

D. B & C

Answer:

Watch Video Solution

144. How many ATP molecules are generated in Calvin cycle ?

A. 18

B. 12

C. 6

D. 0

Answer:

Watch Video Solution

145. Somatostatin is a

A. Peptide hormone

B. An enzyme

C. A steroid

D. A carbohydrate

Answer:

Watch Video Solution

146. Which of the following sets is of flightless birds

A. Columba and Psittacula

B. Struthio and Apthenodytes

C. Corvus and Columba

D. Pavo and Neophron

Answer:

Watch Video Solution

147. Which is the common character between all the mammals

A. They are oviparous

B. They are herbivorous

C. They are carnivorous

D. They have seven cervical vertebrae

Answer:

Watch Video Solution

148. Biofortification involves breeding crops with higher levels of vitamins, proteins, minerals and healthier fats. Which of the following vegetable crop has been produced by IARI that has been enriched with Vitamin C?

A. Bitter gourd, bathua, mustard, tomato

B. Spinach and bathua

C. Pumpkin, carrot and mustard

D. French bean

Answer:

Watch Video Solution

149. a plant requires magnesium for :

A. Protein synthesis

B. Chloropyll synthesis

C. Cell wall development

D. Holding cells together

Answer:

Watch Video Solution

150. The gastric juice contains

A. Trypsin, pepsin, lipase

B. pepsin, lipase, rennin

C. Pepsin, amylase, trypsin

D. Trypsin, pepsin, rennin

Answer:

Watch Video Solution

151. Select the correct statement about biodiversity

A. Large scale planting of Bt cotton has no adverse effect on biodiversity.

B. Western Ghats have a very high degree of species richness and endemism.

C. Conservation of biodiversity is just a fad pursued by the developed countries.

D. The desert areas of Rajasthan and Gujarat have a very high level of desert animal species as well as numerous are animals

Answer:

Watch Video Solution

152. Mark the correct statement with respect to ZIFT.

A. Ova collected from a female donor are transferred to the fallopian tube to facilitate zygote formation.

B. Woman's egg is fertilized outside the body and then zygote is transferred to the fallopian tube.

C. Woman's egg is fertilized outside the body and then zygote is transferred to the uterus.

D. Ova collected from a female donor and transferred to the uterus.

Answer: B

Watch Video Solution

153. Which of the following is a correct match between crop, variety and resistance to diseases ?

A.

Crops	Variety	Resistance to diseases
Wheat	Himgiri	White rust

B.

Crops	Variety	Resistance to diseases
Brassica	Pusa sadabahar	Black rot

C.

Crops	Variety	Resistance to diseases
Cowpea	Pusa komal	Bacterial blight

D.

Crops	Variety	Resistance to diseases
Chilli	Pusa swarnim	Chilli mosaic virus

Answer:

Watch Video Solution

154. Which of the following is not a correct statement?

A. A herbarium houses dried, pressed and preserved plant speciemens.

B. Botanical gardens have a collection of living plants for reference.

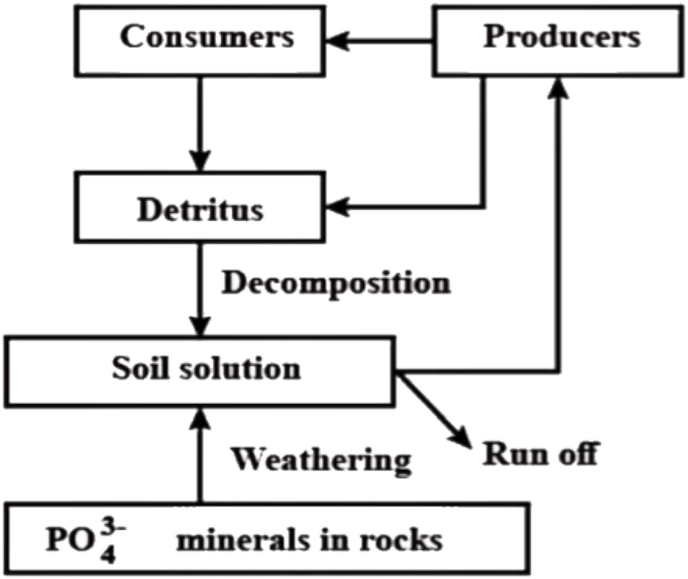
C. A museum has a collection of photographs of plants and animals

D. Key is a taxomonic aid for identification of specimens.

Answer:

Watch Video Solution

155. Given below is a phosphorus cycle. Select the incorrect statements from the following:



(i) It represents phosphorus cyclic in an aquatic ecosystem.

(ii) It represents phosphorus cyclic in a terrestrial ecosystem.

(iii) The natural reservoir of phosphorus is forest ecosystem.

(iii) The natural reservoir of phosphorus is forest rocks.

(iv) There is a respiratory release of phosphorus into the atmosphere.

(v) Gaseous exchange of phosphorus between organisms and the environment does not occur.

A. (i),(ii) and (v)

B. (i),(iii) and (iv)

C. (ii), (iii) and (iv)

D. (i), (iii), (iv) and (v)

Answer:

Watch Video Solution

156. Which of the following pairs has a haploid structure?

A. Nucellus and antipodal cells

B. Antipodal cells and egg cell

C. Antipodal cells and megaspore mother cell

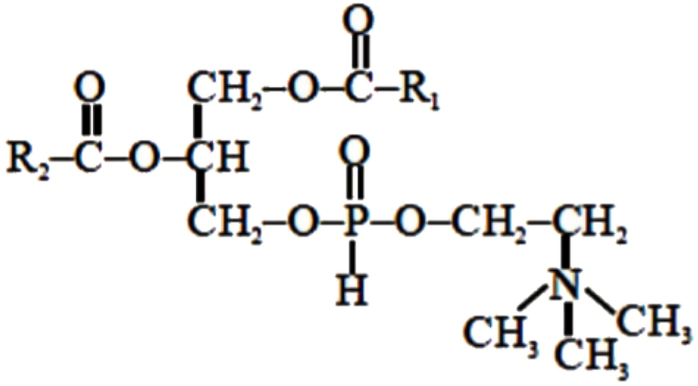
D. Nucellus and primary endosperm nucleus

Answer:

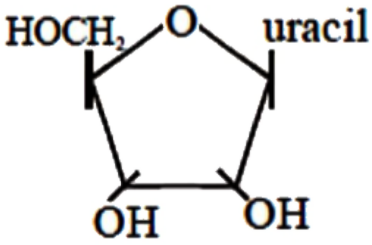
Watch Video Solution

157. Identify the molecule (a) and (b) shown below and select the right option giving their name and occurrence.

(a)



(b)



A. (a) Lecithin-Cell membrane

B. (b) Uridylic acid-RNA

C. (a) Triglyceride-DNA

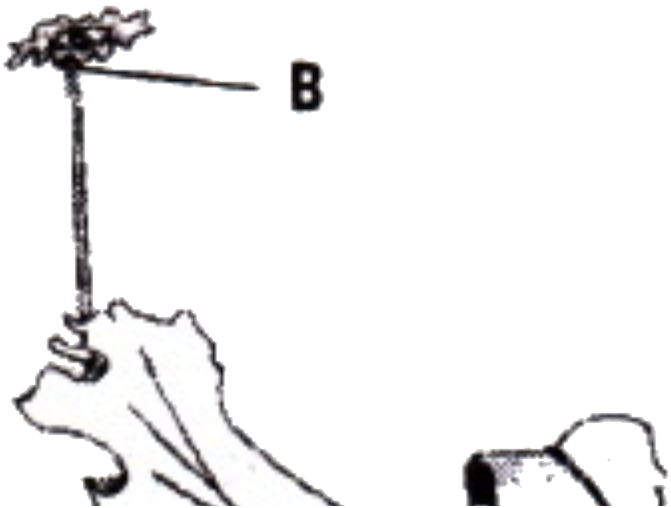
D. (b) Uracil-DNA

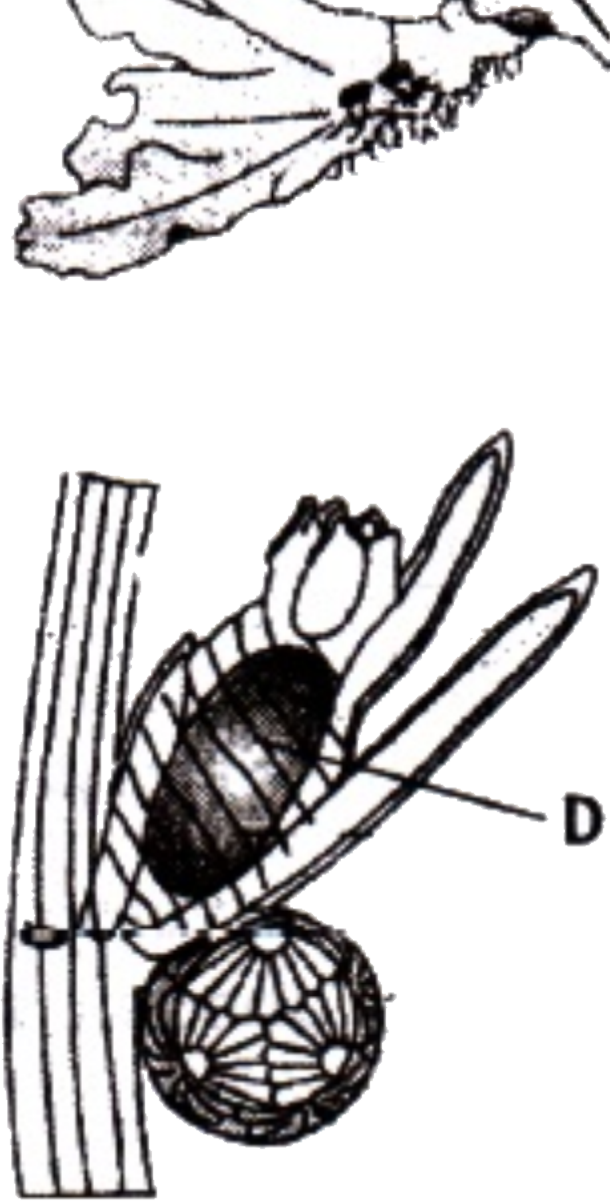
Answer:

Watch Video Solution

158. Examine the figures (A-D) given below and select the right option out of (a-d), in which all the four structures A, B, C and D are identified correctly.


C


B



A. A-Rhizome, B-Sporangiophore, C-Polar cell, D-Globule

B. A-Runner, B-Archegoniophore, C-Synerid, D-Antheridium

C. A-Offset, B-Antheridiophore, C-Antipodals, D-Oogonium

D. A-Sucker, B-Seta, C-Megaspore mother cell, D-Gemma cup

Answer:

Watch Video Solution

159. Which of the following groups of organisms are ecologically similar?

A. Producer protists and consumer protists

B. Monerans and producer protists

C. Consumer protists and fungi

D. Monerans and fungi

Answer:

Watch Video Solution

160. The longest bone of the human body is

A. Humerus

B. Tibia

C. Vertebra

D. Femur

Answer:

Watch Video Solution

161. Amongst the following, which characteristic feature is not applicable to Bt cotton?

A. Bt is the abbreviated term for botulinum toxin

B. Such cotton is resistant to armyworm and beetles.

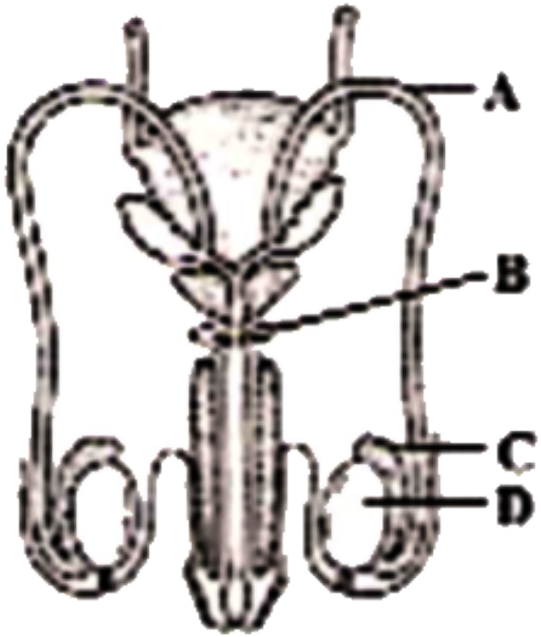
C. The toxin is activated in the body of the insect

D. The toxin is coded by a gene called 'cry'.

Answer:

Watch Video Solution

162. Observe the given diagram and read the statements carefully. Identify the correct ones.



(i) A carries urine and sperms.

(ii) B secretes a fluid that helps in the lubrication of penis.

(iii) D produces testosterone but not sperms.

(iv) C stores sperms.

A. (i) and (ii)

B. (ii) and (iii)

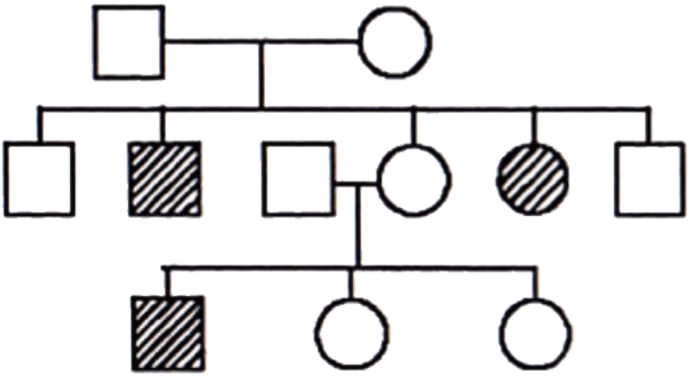
C. (ii) and (iv)

D. (i) and (iv)

Answer: C

Watch Video Solution

163. Study the pedigree chart given below:



what does it show?

A. Inheritance of a condition like phenylketonuria as an autosomal recessive trait.

B. The pedigree chart is wrong as this is not possible

C. Inheritance of a recessive sex-linked disease like haemophilia.

D. inheritance of a sex-linked inborn error of metabolism like phenylketonuria.

Answer:

Watch Video Solution

164. Which of the following is a wrongly matched pair?

A. Tuber-Potato

B. Rhizome-Ginger

C. Bulbil-Agave

D. Leaf buds-Banana

Answer:

Watch Video Solution

165. Three of the following pairs of the human skeletal parts are correctly matched with their respective inclusive skeletal category and one pair is not matched. Identify the non-matching pair

A.

	Pairs of skeletal parts	Category
(a)	Sternum and Ribs	Axial skeleton

B.

	Pairs of skeletal parts	Category
(b)	Clavicle and Glenoid cavity	Pelvic girdle

C.

	Pairs of skeletal parts	Category
(c)	Humerus and Ulna	Appendicular skeleton

D.

	Pairs of skeletal parts	Category
(d)	Malleus and Stapes	Ear ossicles

Answer:

Watch Video Solution

166. Which one of the following statement is wrong with respect to RMS (restriction modification system) as the foundantion of r-DNA technology?

A. Restriction endonuclease identifies introduced foreign DNA and cuts it into pieces.

B. Modification enzymes add a methyl group to one or two bases usually within the recoginition site of restriction endonuclease enzymes.

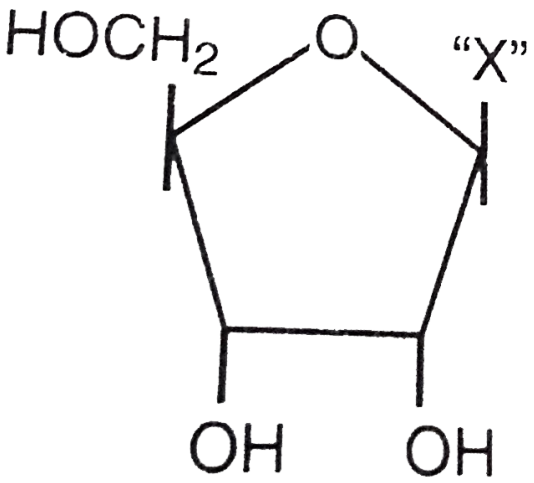
C. Restriction endonuclease can cleave any palindromic sequence

D. Restriction enzymes restriction the propagation of foreign DNA of bacteriophages in the host bacterium.

Answer:

 Watch Video Solution

167. The given diagrammatic representation shows one of the categories of small molecular weight organic compounds in the living tissues. Identify the category shown and the one blank component "X" in it :



A. Category Component

B. Amino acid NH_2

C. Nucleotide Adenine

D. Nucleoside Uracil

Answer:

Watch Video Solution

168. A leaf peeling of Tradescantia is kept in a medium having 10% NaCl. After a few minutes, if we observe the leaf peel under microscope, we are likely to see

A. Entry of water into the cell

B. The cells bursting out

C. Diffusion of NaCl into the cell

D. Exit of water from the cell

Answer:

Watch Video Solution

169. What are the adaptations seen in animals that live in water scarcity conditions?

A. Having a thick coat to minimise evaporative desiccation

B. Oxidising stored fat to produce water as by product

C. Producing very concentrated urine and solid faeces

D. All of these

Answer:

Watch Video Solution

170. Mark the non-invasive technique without any side effects to diagnose the cancer of internal organs.

A. Radiography

B. Computed tomography

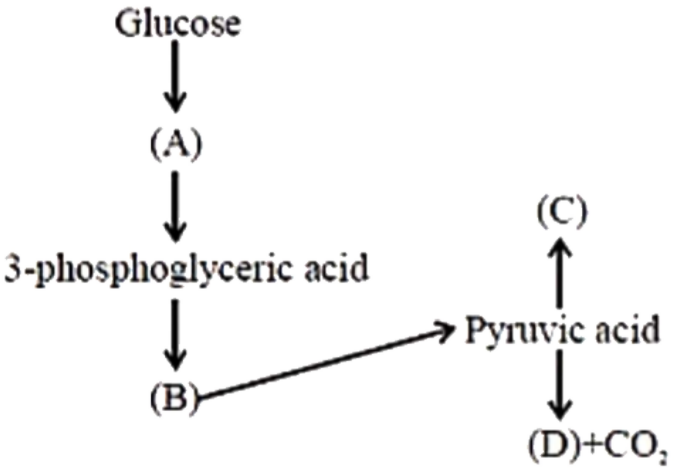
C. Histopathological studies

D. Magnetic resonance imaging (MRI)

Answer: B

Watch Video Solution

171. Based on the given process, identify the correct match for A,B,C and D from the following options.



A.

A	B	C	D
PGAL	PEP	C_2H_5OH	Lactic acid

B.

A	B	C	D
PGAL	PEP	Lactic acid	C_2H_5OH

C.

A	B	C	D
G-6-P	2-PGA	C_2H_5OH	Lactic acid

D.

A	B	C	D
PEP	F-6-P	Lactic acid	C_2H_5OH

Answer:

Watch Video Solution

172. Which kind of plants are required for uninterrupted dark-period flowering?

A. Short day plants

B. Long day plants

C. Short night plants

D. Day neutral plants

Answer:

Watch Video Solution

173. Phenylketonuria (PKU) is an inherited disease which refers to

A. Decrease in phenylalanine in tissue and blood

B. Increase in phenylpyruvic acid in tissue and blood

C. Elimination of sugar in urine

D. Elimination of genetics acid in urine

Answer:

Watch Video Solution

174. What is not true about sclereids ?

A. These are parenchyma cells with thickened lignified walls.

B. These are elongated and flexible with tapered ends.

C. These are commonly found in the shells of nuts and in the pulp of guava, pear, etc.

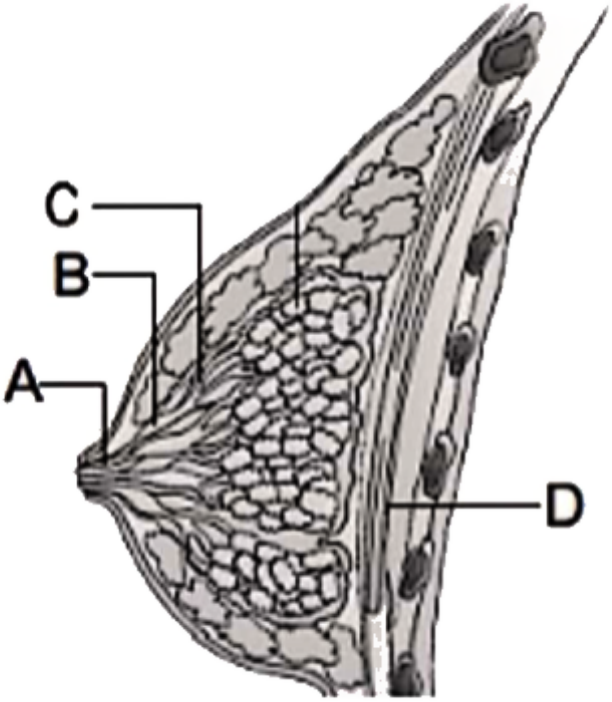
D. These cells also provide support.

Answer:

Watch Video Solution

175. Given below is a diagrammatic sectional view of the mammary gland.

Select the option which indicates the correct labeling.



A. A-Ampulla

B. B-Mammary alveolus

C. C-Lactiferous duct

D. D-Pectoralis major muscle

Answer: D

Watch Video Solution

176. The blood of cockroach contains no respiratory pigment. It means that:

A. Cockroach does not respire

B. Respiration is anaerobic

C. O_2 goes directly into tissues by diffusion

D. O_2 goes into tissue by intracellular capillary system

Answer:

Watch Video Solution

177. Select the match ones.

I. nitrosomonas-Nitrite to nitrate II. Thiobacillus-Denitrification.

III. Nostoc-Free-living nitrogen-fixer

IV. Azotobacter-Anaerobic nitrogen-fixer

A. I and II

B. III and IV

C. II and III

D. II and IV

Answer:

Watch Video Solution

178. In flowering plants archesporium gives rise to

A. only the wall of the sporangium

B. Both wall and the sporogenous cells

C. wall and the tapetum

D. Only tapetum and sporogenous cells

Answer:

Watch Video Solution

179. Which of the following is a restriction endonuclease?

A. Hind II

B. Protease

C. Dnase I

D. Rnase

Answer:

Watch Video Solution

180. Zeatin has been obtained from

A. Wheat

B. Rice

C. Maize

D. Oat

Answer:

Watch Video Solution

181. In majority of the angiosperms, pollen is released in a two-celled stage. The two cells are

A. the gamete and generative cell

B. the vegetative cell and tube nucleus

C. two male gametes

D. the vegetative cell and generative cell

Answer: D

Watch Video Solution

182. Which set of hormones are secreted during pregnancy only?

A. Estrogen, hPL, Relaxin

B. Progesterone, Cortisol, hCG

C. hCG, hPL, Relaxin

D. Cortisol, Progestogens, Relaxin

Answer: C

Watch Video Solution

183. Which of the following is the correct description of the mechanism of action of a copper IUD?

A. These inhibit ovulation and implantation as well as alter the quality of cervical mucus to prevent or retard entry of sperms.

B. These increase phagocytosis of sperms within the uterus and the certain ions released from it suppress sperm motility and the fertilising capacity of sperms.

C. Ovum and sperms are prevented from physically meeting.

D. These prevent conception by blocking the entry of sperms through the cervix.

Answer: B

Watch Video Solution

184. Intentional or voluntary termination of pregnancy before full term is called medical termination of pregnancy (MTP) or induced abortion. Which of the following is incorrect about MTP?

A. MTP has a significant role in decreasing the population.

B. Government of India legalised MTP in 1971 with some strict conditions to avoid its misuse.

C. MTP_s are considered relatively safe during the first trimester in comparison to second trimester abortions.

D. MTP is not allowed if the pregnancy is the result of rape.

Answer: D

Watch Video Solution

185. If the two genes are having $\%$ of recombination less than 50%, then the progeny of F_2 generation will show

A. higher number of the recombinant types

B. segregation in the expected $9:3:3:1$ ratio

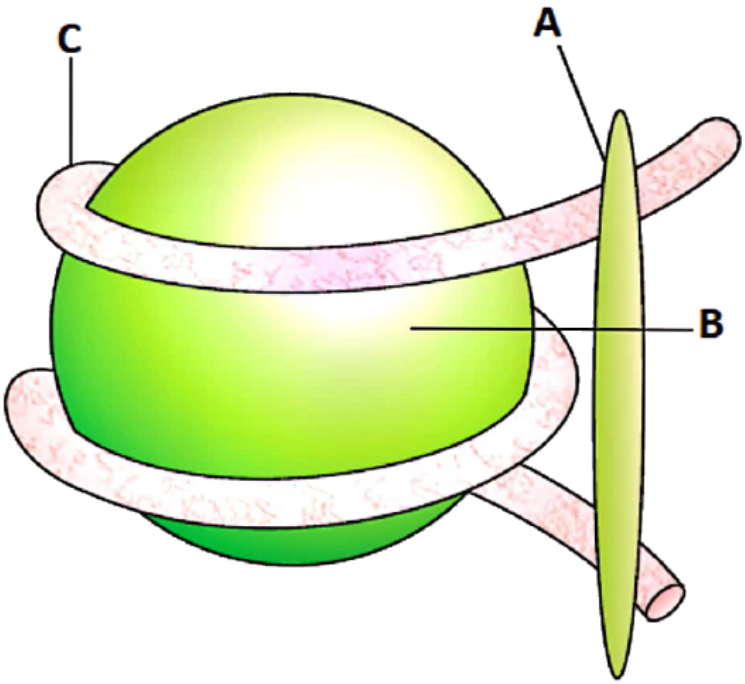
C. segregation in 3:1 ratio

D. higher number of the parental

Answer: D

Watch Video Solution

186. Identify parts labelled A, B, and C in the given diagram and select the correct option.



A.

A	B	C
Negatively charged DNA	Positively charged histone octamer	H1 histone

B.

A	B	C
H1 histone	Negatively charged DNA	Positively charged histone octamer

C.

A	B	C
H1 histone	Positively charged histone octamer	Negatively charged DNA

D.

A	B	C
H1 histone	Negatively charged histone octamer	Negatively charged DNA

Answer: C

Watch Video Solution

187. Select the two correct statements out of the four (1-4) given below about lac operon.

1. Glucose or galactose may bind with the repressor and inactivate it

2. In the absence of lactose the repressor binds with the operator region

3. The z-gene codes for permease

4. This was elucidated Francois Jacob and Jacque Monod

The correct statements are :

A. I and II

B. I and III

C. II and IV

D. I and II

Answer: C

Watch Video Solution

188. Sometimes the change in allelic frequency is so different in the new sample of the population that they become a different species. The original drifted population create a different population. This is called

A. Founder effect

B. Bottleneck effect

C. Metapopulation effect

D. Gene migration

Answer: A

Watch Video Solution

189. How many of the following diseases are transmitted by contaminated food and water?

[Typhoid, Ringworms, Pneumonia, Common cold, Dengue, Amoebiasis, Chikungunya]

A. One

B. Two

C. Three

D. Four

Answer: B

Watch Video Solution

190. Select the incorrect statement from the following.

A. Through vaccines, antigenic proteins of pathogen or dead or weakened pathogens are introduced in the body.

B. Anti-venom provides active immunity.

C. Anti-histamines control allergy

D. Both (a) and (b)

Answer: B

Watch Video Solution

191. If the protoplast of tomato is fused with potato protoplast and grown as new plant, it will be known as

A. Explant

B. Somaclones

C. Callus

D. Somatic hybrid

Answer: D

Watch Video Solution

192. Mark the incorrect statement.

A. Insect and pest infestation is one of the major causes for large scale destruction of crop plants.

B. Breeding method for insect pest resistance involves the special steps that are not similar to use in other agronomic traits such as yield or quality.

C. Malnutrition of micronutrients and vitamins can be termed as hidden hunger.

D. Somaclones are genetically identical to original plants.

Answer: B

Watch Video Solution

193. Which of the following describes out-crossing ?

A. Mating of more closely related Individuals within the same breed for 4- 6 generations.

B. This is the practice of mating of animals within the same breed, but having no common ancestors en either side of their pedigree up to 4-6 generations.

C. Superior males of one breed are mated with superior females of another breed (of same species).

D. Male and female animals of two different species are mated.

Answer: B

Watch Video Solution

194. Monascus purpureus is a yeast used commercially in the production of

A. Ethanol

B. Streptokinase for removing clots from the blood vessels

C. Citric acid

D. Blood cholesterol lowering statins

Answer: D

Watch Video Solution

195. Which of these is not the feature of a cloning vector?

A. Ori supporting high copy number

B. Selectable marker

C. Resistant to the action of restriction enzymes

D. Presence of cloning site

Answer: C

Watch Video Solution

196. Primers used in PCR must be:

A. 3'-end specific

B. 5'-end specific

C. It can be 3'-end specific or 5'-end specific.

D. Primers are not needed in PCR.

Answer: A

Watch Video Solution

197. The variant of cry genes used to control corn borers is

A. crylAc

B. crylAb

C. cryllAb

D. Both (a) and (b)

Answer: B

Watch Video Solution

198. Which of the following locations acts as the reservoir for nitrogen cycle?

A. Atmosphere

B. Sedimentary bedrock

C. Soil

D. Fossilised plant and animal remains

Answer: A

Watch Video Solution

199. All of the following contributed to Mendel's success, except

A. Mendel's selection of pea plant for experiments

B. Application of mathematical knowledge

C. Working on small sampling size at a time

D. Taking one character at a time.

Answer: C

Watch Video Solution

200. Select the incorrect statement.

A. A genus comprises of a group of related species which has more characters in common in comparison to species of other genera.

B. Higher the category, greater is the difficulty of determining the relationship to other taxa at the same level.

C. Going higher from species to kingdom, the number of common characteristics goes on increasing.

D. All organisms, including plants and the animal kingdom, have species as the lowest category.

Answer: C

Watch Video Solution

201. Which organism does not produce oxygen during photosynthesis?

A. Anabaena

B. Funaria

C. Higher plants

D. Rhodospirillum

Answer: D

Watch Video Solution

202. Which one is smallest among the following

A. TMV

B. Bacteriophage

C. Neurospora

D. E. coli

Answer: B

Watch Video Solution

203. The second-largest phylum of invertebrate animals is:

A. Annelida

B. Aschelminthes

C. Mollusca

D. Platyhelminthes

Answer: C

Watch Video Solution

204. Select the set of incorrect statements.

I. The circulatory system in Platyhelminthes has a single opening.

II. Annelids are the first animals to have true coelom and metamerism (true segmentation).

III. The space between the hump and the mantle is called the mantle cavity in which gills are present.

IV. Most of the echinoderms are bisexual.

A. I, II

B. III, IV

C. II, III

D. I, IV

Answer: D

Watch Video Solution

205. How many of the following shows zygomorphic flowers with valvate/imbricate aestivation?

Indigofera, Lupin, Petunia, Aloe, Colchicum autumnale, Sesbania, Trifolium, Solanum

A. 3

B. 4

C. 5

D. 6

Answer: B

Watch Video Solution

206. growth/annual rings are formed by the activity of

A. Cambium

B. Secondary xylem

C. Phellogen

D. Xylem and phloem

Answer: A

Watch Video Solution

207. How many spermathecae are found in the male cockroach?

A. One

B. One pair

C. 2 pairs

D. none

Answer: D

Watch Video Solution

208. In Periplaneta americana, the blood vascular system is of ___A_____ type. Blood vessels are _____B_____. The visceral organs are located in _____C_____ . _____C_____ is filled with a fluid which is composed of _____D_____ and _____E_____ .

A. A Closed B absent C Enterocoel D Plasma E Haemocytes

B. A open B Poorly developed C Haemooel D RBC E Haemolymph

C.

A	B	C	D	E
Open	Absent	Haemocoel	Haemocytes	Lymph

D. A open B Poorly developed C Haemooel D plasma E Haemocytes

Answer: A

Watch Video Solution

209. The axoneme is found in

A. Cilia

B. Flagella

C. Microbodies

D. Both (A) and (B)

Answer: D

Watch Video Solution

210. Assertion : Competitive inhibitor is also called as substrate analogue.

Reason : It resembles the enzymes in structure.

A. Both 1 and 2 are correct

B. 1 is correct and 2 is incorrect

C. 1 is incorrect and 2 is correct

D. Both are incorrect.

Answer: B

Watch Video Solution

211. Analyze the events occurring during every stage of the cell cycle, how the amount of DNA content (C) per cell changes and select the correct option.

A. DNA content becomes doubled during S phase of cell cycle

B. DNA content is reduced to half during anaphase

C. DNA content remain same during meiosis I

D. Both (a) and (b)

Answer: D

Watch Video Solution

212. Which of the following statement is incorrect ?

A. Different substances move independently along their concentration gradient in mass flow.

B. Active absorption of ions from the soil by the root is mainly affected by respiratory activity of root.

C. The translocation of organic solutes in sieve tube members is supported by mass flow.

D. Root pressure develops due to active absorption.

Answer: A

Watch Video Solution

213. How many electron and protons are required to fix a dinitrogen ?

A. 32 each

B. 8 each

C. 6 each

D. 4 each

Answer: B

Watch Video Solution

214. ATP as well as NADPH $+H^+$ both are required during the conversion of _____ in C_3 cycle

A. $\mathrm{RUBP}+CO_2 \rightarrow \mathrm{PGA}\ (2\ \mathrm{molecules})$

B. $PGA \rightarrow PGAL$

C. $PGAL \rightarrow DHAP$

D. Frucotse 1, 3 - biphosphate $\rightarrow$ Glucose

Answer: B

Watch Video Solution

215. In the election transport chain the correct sequence of eletron acceptor is

A. Cytochrome a, a_3 , b, c

B. Cytochrome b, c, a, a_3

C. Cytochrome b, c_3, a, a_3

D. Cytochrome c, b, a, a_3

Answer: B

Watch Video Solution

216. Ethylene is highly effective in fruit ripening. It enhances the respiration rate during ripening of fruits, this rise in rate of respiration is called?

A. Respiratory climactic

B. Respiratory quotient

C. Respiratory effect

D. Respiratory quiescence

Answer: A

Watch Video Solution

217. PEM (protein-energy malnutrition) that affects the infants results in

A. Marasmus

B. Kwashiorkor

C. Pot-bellied

D. Obesity.

Answer: A

Watch Video Solution

218. Moist cuticle is the respiratory organ in

A. Insects

B. Earthworms

C. Aquatic arthropods and molluscs

D. Amphibians like frogs

Answer: B

Watch Video Solution

219. ECG is a graphical representation of the electrical activity of the heart during a cardiac cycle. Identify the incorrect interpretation.

A. P-wave: Depolarisation of the atria.

B. QRS complex: Ventricular systole.

C. T-wave: Ventricular repolarisation.

D. End of T-wave: End of ventricular systole.

Answer: B

Watch Video Solution

220. The amount of urine released by humans in a day is

A. 1 to 1.5 litres of slightly acidic (pH- 6.0) urine having 45-60 gm of urea.

B. 1 to 1.5 litres of slightly acidic (pH- 6.0) urine having 25-30 gm of urea.

C. 0 to 1 litres of slightly alkaline (pH- 7.3) urine having 25-30 gm of urea

D. 1 to 1.5 litres of slightly acidic (pH- 6.0) urine having 45-60 gm of urea.

Answer: B

Watch Video Solution

221. Midbrain is located between

A. Thalamus/hypothalamus of forebrain and pons varolii of hindbrain

B. Thalamus/hypothalamus of forebrain and medulla of hindbrain

C. Olfactory lobe of forebrain and pons varolii of hindbrain

D. Olfactory lobe of forebrain and medulla of hindbrain

Answer: A

Watch Video Solution

222. Thymosins play role in

A. Cell-mediated immunity only

B. Humoral immunity only

C. Both cell-mediated and humoral immunity

D. Neither cell-mediated and nor humoral immunity

Answer: C

Watch Video Solution

223. Which set of animals doesn't belong to the same phylum?

A. Roundworm, Hookworm, Filarial worm

B. Earthworm, Leech, Nereis

C. Sea pen, Brain coral

D. Devil fish, King crab, Chiton

Answer: D

Watch Video Solution

224. Respiratory quotient for tripalmitin is

A. 0.9

B. 0.7

C. 1.0

D. 1.4

Answer: B

Watch Video Solution

225. The periderm includes

A. Cork

B. Cork cambium

C. Secondary cortex

D. All of these

Answer: D

Watch Video Solution

226. Which of the following is correct about phenylketonuria?

A. It is an example of pleiotropy

B. It is an autosomal dominant disease

C. It is caused due to single gene mutation

D. Both (A) and (C)

Answer: D

Watch Video Solution

227. Two features present in meiosis but absent in mitosis are

A. Pairing of non-homologous chromosomes

B. Pairing of homologous chromosomes and recombination between them

C. Replication of chromosome

D. All of these

Answer: B

Watch Video Solution

228. Which of the following animals have different symmetry in comparison to the other three?

A. Pila

B. Pleurobrachia

C. Sycon

D. Asterias

Answer: A

Watch Video Solution

229. Stomata are not found in

A. Algae

B. Mosses

C. Ferns

D. Liverworts

Answer: A

Watch Video Solution

230. Zygote undergoes cleavage while moving through the isthmus of the oviduct towards the uterus and forms daughter cells called blastomeres. The embryo with 8 to 16 blastomeres is called a ___A____which continues to divide to form ___B____ in uterus. The blastomeres in the___B____are arranged into an outer layer called___A____and an inner group of cells called the inner cell mass.

A. $\begin{vmatrix} \text{A} & \text{B} & \text{C} \\ \text{Morula} & \text{Blastocyst} & \text{Haemocytoblast} \end{vmatrix}$

B. $\begin{vmatrix} \text{A} & \text{B} & \text{C} \\ \text{Morula} & \text{Gastrula} & \text{Haemocytoblast} \end{vmatrix}$

C. $\begin{vmatrix} \text{A} & \text{B} & \text{C} \\ \text{Blastula} & \text{Gastrula} & \text{Trophoblast} \end{vmatrix}$

D. $\begin{vmatrix} \text{A} & \text{B} & \text{C} \\ \text{Morula} & \text{Blastula} & \text{Trophoblast} \end{vmatrix}$

Answer: D

Watch Video Solution

231. Mycoplasmas, the smallest cells, are only (i) μ m in length while bacteria could be (ii) μ m. Among multicellular organisms, human red blood cells are about (iii) μ m in diameter. Identify (i), (ii), and (iii).

A. $\begin{vmatrix} (\mathrm{i}) & (\mathrm{ii}) & (\mathrm{iii}) \\ 0.5 & 5-7 & 7 \end{vmatrix}$

B. $\begin{vmatrix} (\mathrm{i}) & (\mathrm{ii}) & (\mathrm{iii}) \\ 0.3 & 3-7 & 9 \end{vmatrix}$

C. $\begin{vmatrix} (\mathrm{i}) & (\mathrm{ii}) & (\mathrm{iii}) \\ 0.3 & 3-5 & 4 \end{vmatrix}$

D. $\begin{vmatrix} (\mathrm{i}) & (\mathrm{ii}) & (\mathrm{iii}) \\ 0.3 & 3-5 & 7 \end{vmatrix}$

Answer: C

Watch Video Solution

232. The cellulosic cell wall is observed in members of

A. Protista

B. Plantae

C. Both (a) and (b)

D. Monera

Answer: B

Watch Video Solution

233. Read the following statements :

i. Open type circulatory systems are found in Arthropods.

ii. Pseudocoelomates are bilaterally symmetrical.

iii. Most of the sponges are radially symmetrical.

iv. Platyhelminthes have a tissue level of organization.

How many of the above statements are incorrect?

A. One

B. Two

C. Three

D. None

Answer: B

Watch Video Solution

234. A man of 'A' bood group marries a woman of 'AB' bood group .Which types of progeny would indicate that man is heterozyguos?

A. O

B. A

C. B

D. AB

Answer: C

Watch Video Solution

235. The essential chemical components of many coenzymes are

A. Nucleic acid

B. Carbohydrates

C. Vitamins

D. Proteins

Answer: C

Watch Video Solution

236. Biological organisation starts with

A. Cellular level

B. Organismic level

C. Submicrospic molecular level

D. Tissue level

Answer: C

Watch Video Solution

237. Sea fur belongs to phylum A. Members of such phylum have:

A. Bilateral symmetry

B. Blind sac body plan

C. Metamerism

D. Triploblastic nature

Answer: B

Watch Video Solution

238. Which of the following statement is incorrect about the phylum hemichordata?

A. Excretion by proboscis glands

B. Respiration by gills

C. Monoecious

D. Have a rudimentary structure in the

Answer: C

Watch Video Solution

239. Cytoskeleton is made up of

A. Callus deposits

B. Cellulosic microfibrils

C. Proteinaceous filaments

D. Calcium carbonate granules

Answer: C

Watch Video Solution

240. Callus can form plantlets by altering the concentration of

A. Phytohormones

B. Amino sugars

C. Vitamins

D. Sugars

Answer: A

Watch Video Solution

241. Which of the following is correct with respect to biofortified food?

A. Wheat variety, Atlas 66, having a high lysine and tryptophan content.

B. vitamin C enriched crop are bitter gourd, bathua, mustard, tomato

C. vitamin A enriched carrots, spinach, French and garden peas

D. iron and calcium enriched broad and lablab

Answer: B

Watch Video Solution

242. How many of the following structures/organs belong to the male reproductive system of a cockroach?

[Utricular gland, spermatheca, oothecal chamber, Phallic gland, seminal vesicles]

A. None

B. One

C. Two

D. Three

Answer: D

Watch Video Solution

243. Dense connective tissue can be observed at all of the following locations, except

A. Ligament

B. Tendon

C. Beneath the skin

D. Skin

Answer: C

Watch Video Solution

244. Select the incorrect statement.

A. Algin is obtained from Algae.

B. Cyanobacteria form mycorrhizae which helps in the absorption of phosphate

C. Salvinia, Selaginella and Azolla show heterospory.

D. The genome of TMV is RNA.

Answer: D

Watch Video Solution

245. Conducting part of the tertiary bronchi and bronchioles end up in

A. Segmental bronchi

B. Segmental bronchiole

C. Respiratory bronchioles

D. Terminal bronchiole

Answer: D

Watch Video Solution

246. The process of conversion of organic nitrogen from dead material to ammonia is known as

A. Nitrification

B. Decomposition

C. Denitrification

D. Ammonification

Answer: D

Watch Video Solution

247. Which of the following is incorrectly matched?

A. ABO Blood group in Humans - Multiple allelism.

B. Skin colour in human - Multiple allelism

C. Flower colour in Mirabilis - Incomplete dominance.

D. Phenylketonuria - Pleiotropism.

Answer: B

Watch Video Solution

248. Vasa recta is associated with

A. Most of cortical nephrons

B. Few of cortical nephrons only

C. Juxta medullary nephrons

D. Urinary bladder

Answer: C

Watch Video Solution

249. Rubisco enzyme can act both as carboxylase and as oxygenase. In C_4 cycle it functions as

A. Oxygenase only

B. Carboxylase only

C. Mainly carboxylase activity minimizing oxygenase.

D. Oxygenase but sometimes as carboxylase

Answer: C

Watch Video Solution

250. Which of the following is not a post pollination development?

A. A Formation of callose plugs in pollen tube

B. Division of pollen cell into tube cell and generative cel.

C. Secretion of pectinase and other hydrolytic enzyme.

D. Swelling of tube cell and formation of pollen tube.

Answer: B

Watch Video Solution

251. Which of the following is not the example of synovial joint?

A. Between humerus and pectoral girdle

B. Between atlas and axis

C. Between carpal and metacarpal of thumb

D. Between the adjacent vertebrae

Answer: D

Watch Video Solution

252. How many of the given statements are correct?

A. Hypothalamus is the centre for eating and drinking.

B. Corpus callosum is made up of nerve fibres.

C. ADH is synthesized by the posterior pituitary.

D. Balancing by semicircular canals is done by the macula.

A. One

B. Two

C. Three

D. All

Answer: B

Watch Video Solution

253. According to the taxonomic hierarchy, which of the following statements are correct?

A. Felis and Canis are placed under same family.

B. Potato and brinjal belong to the same genus.

C. Classes of plants with few similar characters are assigned to higher category called order.

D. Panther and Felis domestica are placed in different families.

Answer: B

Watch Video Solution

254. Dikaryon formation is characteristic of

A. Ascomycetes and Basidiomycetes

B. Phycomycetes and Ascomycetes

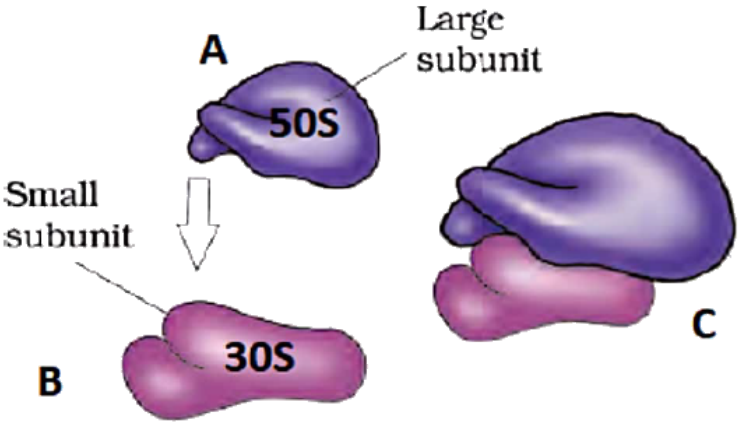
C. Basidiomycetes and Zygomycetes

D. Phycomycetes and Deuteromycetes

Answer: A

Watch Video Solution

255. Analyze the diagram given below, and select the correct option regarding part labeled as C.



A. 70S subunit formed during eukaryotic translation

B. 70S subunit formed during prokaryotic translation

C. 80S subunit formed during prokaryotic translation

D. 80S subunit formed during eukaryotic translation

Answer: B

Watch Video Solution

256. The lining of each seminiferous tubule is made up of 2 types of cells - A and B. 'A' cells undergo meiosis and result in sperm formation. 'B' cells secrete

A. Testosterone

B. Estrogen

C. FSH

D. None of these

Answer: D

Watch Video Solution

257. The largest part of the fallopian tube is

A. Isthmus

B. Fimbriated end

C. Ampulla

D. Uterine part of Fallopian tube.

Answer: C

Watch Video Solution

258. The mRNA Consisting of 282 nucleotides can produce a polypeptide chain of

A. 282 amino acids

B. 120 amino acids

C. 93 amino acids

D. 94 amino acids

Answer: C

Watch Video Solution

259. "Every species has a right to live". What kind of value implies the conservation of biodiversity?

A. Narrowly utilitarian

B. Broadly utilitarian

C. Aesthetic

D. Ethical

Answer: D

Watch Video Solution

260. In a comparative study of grassland ecosystem and pond ecosystem it may be observed that:

A. The abiotic components are almost similar.

B. The biotic components are almost similar

C. Both biotic and abiotic component are different.

D. Primary and secondary consumers are similar

Answer: C

Watch Video Solution

261. Which of the statement is not applicable to mutations?

A. These are discontinuous variations

B. Usually recessive

C. Usually harmful

D. Predictable

Answer: D

Watch Video Solution

262. Which of the following set shows convergent evolution?

A. Anteater and Numbat

B. Lemur and Bobcat

C. Spotted Cuscus and Wolf

D. Mole and flying Phalanger

Answer: A

Watch Video Solution

263. In eukaryotic transcription, heteronuclear RNA (hnRNA) is transcribed by

A. RNA polymerase I

B. RNA polymerase II

C. RNA polymerase III

D. All of these

Answer: B

Watch Video Solution

264. Vertical distribution of different species occupying different levels is called

A. Stratification

B. Eutrophication

C. Productivity

D. Biodiversity

Answer: A

Watch Video Solution

265. Crossing over occurs between

A. Two different genomes

B. Homologous chromosome

C. Sister chromatid

D. Non homologous chromosome.

Answer: B

Watch Video Solution

266. Select the set of opioids.

A. Morphine and hashish

B. Codeine and charas

C. Heroin and marijuana

D. Morphine and heroin.

Answer: D

Watch Video Solution

267. Blood and bone marrow tests are mainly done for analysis of

A. Leukemia

B. Gastric carcinoma

C. Skin carcinoma

D. Brain tumour

Answer: A

Watch Video Solution

268. When both alleles of a pair are fully expressed in heterozygotes, they are called

A. Lethals

B. Codominants

C. Incomplete dominants

D. Recessive allele.

Answer: B

Watch Video Solution

269. The method of breeding, in which superior males of one breed are mated with superior females of another breed is called

A. Inbreeding

B. Inter-specific hybridization

C. Outcrossing

D. Cross Breeding

Answer: D

Watch Video Solution

270. Which layer of uterus exhibits strong contraction during parturition?

A. Perimetrium

B. Myometrium

C. Endometrium

D. Mesovarium.

Answer: B

Watch Video Solution

271. Androecium and gynoecium are _____ of a flower.

A. Essential whorls

B. Accessory whorls

C. Non-essential whorls

D. All of these

Answer: A

Watch Video Solution

272. Given below are four methods and their mode of action in achieving contraception. Find the incorrect match.

A. Cervical caps-Prevent sperms reaching cervix

B. Periodic abstinence-Natural method that avoids chances of ovum and sperms meeting.

C. Cu375-Suppress sperm motility and fertilising capacity of sperms.

D. Saheli-Prevent ovulation

Answer: D

Watch Video Solution

273. Snakes and lizards shed their scales as skin cast it is

A. Dermis

B. Epidermis

C. Carnified cells

D. none of these

Answer: C

Watch Video Solution

274. Hyposecretion of steroid hormones from adrenal glands leads to

A. Addison's disease

B. Cushing's disease

C. Dwarfism

D. None of the above

Answer: A

Watch Video Solution

275. Which one of the following pairs of food components in human reaches the stomach totally undigested

A. protein and starch

B. Starch and fat

C. Fat and cellulose

D. Starch and cellulose

Answer: C

Watch Video Solution

276. E. coil with completely N^{15} DNA was allowed to replicate in N^{14} medium for two generations. Percentage of bacteria with heavy DNA will be

A. $6.25\ \%$

B. $50\ \%$

C. 25 %

D. 100 %

Answer: B

Watch Video Solution

277. The three levels of biodiversity are

A. Genetic divesity, species diversity and ecological diversity

B. Species diversity, ecological diversity and habitat diversity

C. Geographical diversity, genetic diversity and habitat diversity

D. Ecological diversity , species diversity and community diversity

Answer: A

Watch Video Solution

278. The asexual spores are generally not found in

A. Basidiomycetes

B. Ascomycetes

C. Deuteromycetes

D. Zoomycetes

Answer: A

Watch Video Solution

279. In ECG the repolarization of ventricles is indicated by

A. P wave

B. QRS complex

C. S wave

D. T wave

Answer: D

Watch Video Solution

280. The cells of the embryo sac in the chalazal end are called as

A. Antipoda cells

B. Synergids

C. Egg and synergids

D. Antipodals and synergids

Answer: A

Watch Video Solution

281. Species with small world populations that are not endangered or vulnerable at present, but are at the risk are called

A. Critically endangered

B. Lower risk

C. Rare

D. Extinct

Answer: C

Watch Video Solution

282. Emulasification of fat is carried out by

A. Pancreatic juice

B. HCl

C. Bile

D. Mucus of intestine

Answer: C

Watch Video Solution

283. In plants meiosis occurs in

A. Anther

B. Root tip

C. Cambium

D. Pollen grain

Answer: A

Watch Video Solution

284. Guard cells help in

A. Transpiration

B. Guttation

C. Increasing temperature of leaf

D. Decreasing gaseous exchange

Answer: A

Watch Video Solution

285. Which of the following organisms possesses characteristics of both a plant and an animal?

A. Mycoplasma

B. Paramecium

C. Bacteria

D. Euglena

Answer: D

Watch Video Solution

286. Microscopic study of tissues is known as

A. Histology

B. Microbiology

C. Cytology

D. Pathology

Answer: A

Watch Video Solution

287. Darwin's Finches are an excellent example of

A. Adaptive radiation

B. Seasonal migration

C. Brood parasitism

D. Connecting links

Answer: A

Watch Video Solution

288. In Mongolism, each cell has how many chromosomes

A. 21^{st} pair having one less

B. 23^{rd}pair with one less

C. 45

D. 47

Answer: D

Watch Video Solution

289. Sticky pollen grains with large and attractive coloured flowers in characteristic of flower showing

A. Anemophily

B. Entomophily

C. Hydrophily

D. Malacophily

Answer: B

Watch Video Solution

290. Crossing over in diploid organism is responsible for

A. Segregation of alleles

B. Dominance of genes

C. Linkage between genes

D. Recombination of genes

Answer: D

Watch Video Solution

291. The posterior lobe of the pituitary is called

A. Glandularhypophysis

B. Neurohypophysis

C. Adenohypophysis

D. Vascularhypophysis

Answer: B

Watch Video Solution

292. Purified antibiotic penicillin of Penicillium notatum was obtained by

A. Alexander Flaming

B. Howard Florey

C. Ernest Chain

D. Carolus Linnaeus

Answer: A

Watch Video Solution

293. The Pneumococcus experiment of Griffith proves that

A. DNA is the tranforming principle

B. Bacteria undergo binary fission

C. Bacteria do not reproduce sexualy

D. RNA sometime controls the production of DNA and proteins

Answer: A

Watch Video Solution

294. The reason for the exit of nerve cells from the cell cycle once after forming is :

A. Absence of nucleus

B. Absence of mitrochondria

C. Absence of centrosome

D. Absence of Golgi body

Answer: C

Watch Video Solution

295. Which of the following statement is / are correct with respect to remedy for plastic waste?

a. Polyblend is a fine mixture of recycled modified palstic.

b. It is a zero-waste procedure

c. It was due to the collaboration of town people of Arcata and biologistis of Humboldt State University

d. A blend of polyblend and bitumen enhances bitumen's water - repellent properties and helps to increase road life

A. a and b

B. a and c

C. a and d

D. only a

Answer: C

Watch Video Solution

296. How many statements are correct ?

a. Biomagnification is the natural ageing of a lake by nutrient enrichment of its water

b. After CFC, methane is a major cause of greenhouse effect

c. Ozone is a secondary pollutant in troposphere

d. The thickness of the ozone is measured in Dobson unit

A. a,b

B. only d

C. c,d

D. a,b,d

Answer: C

Watch Video Solution

297. In mammals growing oocytes are surrounded by special nutritive cells called

A. Follicle cells

B. Nurse cells

C. Follicle cells and nurse cells

D. None of the above

Answer: A

Watch Video Solution

298. The habit of a cabbage or acaulescent plant can be changed drastically by the application of

A. IAA

B. GA_3

C. ABA

D. Zeatin

Answer: B

Watch Video Solution

299. The number of occipital condyles in man is/are

A. one

B. Two

C. Three

D. Four

Answer: B

Watch Video Solution

300. Respiration is an

A. Endothermic process

B. Exothermic process

C. Anabolic process

D. Endergonic process

Answer: B

Watch Video Solution

301. Match the column with respect to organelles and their respective function.

	Column I		Column II
a.	Golgi apparatus	(i)	Helps in spindle formation
b.	Ribosomes bound to ER	(ii)	Synthesis and storage of fats
c.	Microtubules	(iii)	Secretory proteins
d.	Spherosomes	(iv)	Helps in pseudopodia formation
		(v)	Acrosome of sperms

A. a-I,b-ii,c-iv,d-v

B. a-v,b-iii,c-I,d-ii

C. a-v,b-iii,c-iv,d-ii

D. a-iv,b-iii,c-v,d-ii

Answer: B

Watch Video Solution

302. The type of chlorophyll present of Phaeophycease is

A. chlorophyll a and chlorophyll e

B. chlorophyll a and chlorophyll c

C. chlorophyll a and chlorophyll d

D. chlorophyll a and chlorophyll b

Answer: B

Watch Video Solution

303. According to Hardy-Weinberg's principle, if allele one is denoted as 'A' and allele two as 'a' and their frequencies are denoted by p and q, and if random mating occurs. The frequency of heterozygous individual would be :

A. 2pq

B. q^2

C. pq

D. p^2

Answer: A

Watch Video Solution

304. Enzymes having slightly different molecular structure but performing identical activity are called

A. Isoenzymes

B. Holoenzymes

C. Apoenzymes

D. Coenzymes

Answer: A

Watch Video Solution

305. Extrusion of second polar body from egg nucleus occurs

A. After the entry of sperm, before the completerion of fertilization

B. After the completion of fertilization

C. Before the entry of sperm

D. Has no relation to sperm entry.

Answer: A

Watch Video Solution

306. Culturing of shoot apex as explant on nutrient medium in tissue culture gives to disease-free plants because :

A. Such an explant contains secondary metabolites

B. It contains toxins that prevent growth of other organism

C. Such explant is pathogen free

D. Sterilization kills all pathogens

Answer: C

Watch Video Solution

307. Which of the folliwng structure will not be common to mitotic cell of a higher plant

A. Cell plate

B. Centriole

C. Centromere

D. Spindle fibres

Answer: B

Watch Video Solution

308. Multiple alleles control the inheritance of

A. Phenylketonuria

B. Colour blindness

C. Sickle cell anaemia

D. Blood groups

Answer: D

Watch Video Solution

309. If the birth rate is 100, the death rate is 10 and the number of individuals in a population group is 1000, then what will be the intrinsic rate of natural increase of the population ?

A. 900

B. 90

C. 1090

D. 890

Answer: B

Watch Video Solution

310. To study any kind of genetic abnormality arising due to change is chromosome number, the karyotype is prepared. Which of the following stages is most suitable to develop a karyotype ?

A. Metaphase

B. Telophase

C. Anaphase

D. Prophase

Answer: A

Watch Video Solution

311. Genetically enrgineered bacteria have been used in the commercial production of

A. Human insulin

B. Testosterone

C. Thyroxine

D. Melatomin

Answer: A

Watch Video Solution

312. At the neutromuscular junction :

A. The muscle membrane possesses muscluriae receptors

B. The motor nerve endings secrete norepinephrine

C. Curare leads to prolongationof neuromuscular transmission

D. The motor nerve endings secrete acetylcholine

Answer: D

Watch Video Solution

313. Which one of the following is associated with excretion in amoeba ?

A. Endoplasm

B. Mitochondria

C. Contractile vacuole

D. Plasma membrane

Answer: C

Watch Video Solution

314. Peripatus is known as a connecting link, because it has the characters of both

A. Aves and Fishes

B. Reptiles and Birds

C. Fishes and Amphibians

D. Arthropods and Annelids

Answer: D

Watch Video Solution

315. Caffeine, amphetamine and concaine are

A. Nerve depressants

B. Nerve initiators

C. Nerve stimulants

D. Nerve impulse initiators

Answer: C

Watch Video Solution

316. Name of Schleiden and Schwann are associated with

A. Protoplasm as the physical basis of life

B. Cell theory

C. Theory of cell lineage

D. Nucleus functions as control centre of cell

Answer: B

Watch Video Solution

317. If the gene of interest is inserted at the BamHI site in pBR322, the recombinant plasmid will

A. Show ampicillin & tetracycline resistance only

B. Show tetracycline resistance

C. Will grow well on tetracycline containing medium

D. Will not grow on tetracycline containing medium

Answer: D

Watch Video Solution

318. In lichens, sexual reproduction is usually performed by

A. Fungal partner only

B. Algal partner only

C. Fungal and algal partners (both)

D. Either fungal partner or algal partner (not both)

Answer: A

Watch Video Solution

319. What does the filiform apparatus do at the entrance of the ovule ?

A. It brings about opening of the pollen tube.

B. It helps in the entry of pollen tube into a synergid.

C. It prevents entry of more than one pollen tube into the embryo sac.

D. It guides pollen tube from a synergied to egg.

Answer: B

Watch Video Solution

320. Which of the following set of bacteria are found to be very useful in genetic engineering experiments ?

A. Nitrosomonas and Klebsiella

B. Rhizobium and Diplococcus

C. Nitrobacter and Azotobacter

D. Escherichia and Agrobacterium

Answer: D

Watch Video Solution

321. Which one of the following traits of garden pea is a recessive feature ?

A. Round seed shape

B. Axial flower position

C. Green seed colour

D. Green pod colour

Answer: C

Watch Video Solution

322. Which one of the following processes is not involved in beer production ?

A. Melting

B. Mashing

C. Fermentation

D. Distillation

Answer: D

Watch Video Solution

323. Hydrolysis of nucleic acid yields

A. Only sugar

B. Phosphoric acid only

C. Nitrogenous base only

D. Nitrogenous base, sugar and phosphate

Answer: D

Watch Video Solution

324. Read the following statements :

i. presence of DNA.

ii. Presence of cristae.

iii. Presence of the 70S ribosome.

iv. Enzyme for carbohydrate synthesis.

v. Site for oxidative phosphorylation.

How many of the above statements are in common for mitochondria and chloroplast ?

A. Two

B. Five

C. Four

D. Three

Answer: A

Watch Video Solution

325. Which of the following statements is correct with respect to Blackman's law of limiting factor ?

A. Only one factor can be limited in photosynthesis

B. Photosynthesis consists of a light and dark reaction

C. The trapping of light by chloroplast is temperature dependent

D. The trapping of light by chloroplast can occur only if CO_2 is present

Answer: B

Watch Video Solution

326. ADH is synthesised by _____, released by _____ and acts on _____.

A. Hypothalamus,neurohypophysis, PCT

B. Hypothalamus,neurohypophysis, DCT and collecting duct

C. Hypothalamus, adeonohypophysis, PCT

D. Hypothalamus, adenohypophysis, loop of Henly

Answer: B

Watch Video Solution

327. Stirred-tank bioreactors have been designed for

A. Addition of preservatives to the product

B. Purification of the product

C. ensuring anaerobic condition in the culture vessel

D. Availability of oxygen throughout the process

Answer: D

Watch Video Solution

328. The enzyme nitrogenase is

A. A Cu-Fe protein

B. Found in prokaryotes only

C. An O_2 requiring enzyme

D. Essential to convert NH_3 to N_2

Answer: B

Watch Video Solution

329. Which of the following statements is correct for the 'nodes of Ranvier ' in nerves ?

A. Neurilemma is discontinuous

B. Myelin sheath is discontinuous

C. Both neurilimma and myelin sheath are discontinuous

D. Covered by myelin sheath

Answer: B

Watch Video Solution

330. The plant group that produces spores and embryo but lacks vascular tissues and seeds is

A. Pteridophyta

B. Rhodophyta

C. Bryophyta

D. Phaeophyta

Answer: C

Watch Video Solution

331. There are two plants A and B with respective critical photoperiod of 13 hours and 11 hours.When they are exposed to light for a period of 12

hour, it initiated flowering in both. Which of the following conclusions is most appropriate for these plants ?

A. Both plant A and B are long day plants

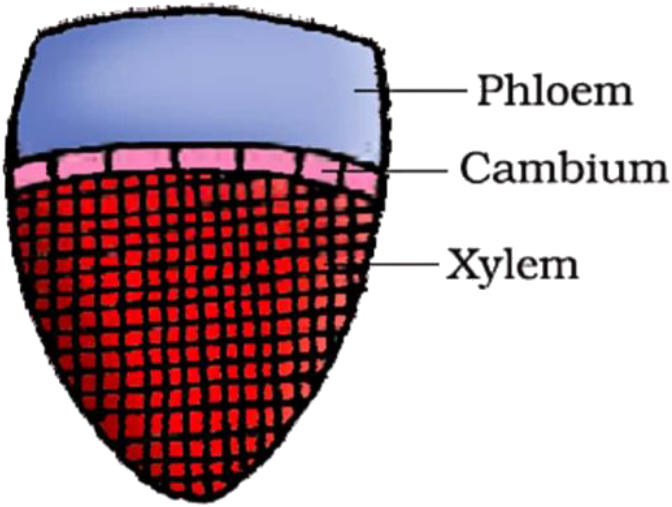
B. Both plant A and B are short day plants

C. Plant A is short day plant and plant B is long day plant

D. Plant A is long day plant and plant B is short day plant

Answer: C

Watch Video Solution



332.

In which of the following, this kind of vascular bundle can be seen ?

A. Dicot stem

B. Monocot stem

C. Dicot leaf

D. Monocot leaf

Answer: A

Watch Video Solution

333. Liberation of oxygen when green cells in water are exposed to sunlight in presence of suitable acceptor is

A. Arnon's reaction

B. Emerson's enhance effect

C. Blackman's reaction

D. Hill's reaction

Answer: D

Watch Video Solution

334. HIV causes reduction in

or

HIV virus affects..... In AIDS patient

A. T-helper cells only

B. All T-cells

C. B-cells only

D. Both B and T -cells

Answer: A

Watch Video Solution

335. Verxillary aestivation is seen in

A. China rose

B. Bean

C. Gulmohur

D. Cotton

Answer: B

Watch Video Solution

336. Cyanophycean granules and glycogen granules are examples of

A. Mircorbodies

B. Inclusion bodies

C. SER

D. Lysosomes

Answer: B

Watch Video Solution

337. Which of the following is incorrect about Klinefelter's syndrome ?

A. A chromosomal disorder

B. Karyotype of 44 + XXY

C. Gynaecomastia

D. Fertile males

Answer: D

Watch Video Solution

338. During transcription, DNA site at which RNA polymerase binds is called

A. Terminator

B. Promoter

C. Regulator

D. Operator

Answer: B

Watch Video Solution

339. Residual volume is

A. Lesser than tidal volume

B. Greater than inspiratory volume

C. Greater than vital capacity

D. Greater than tidal volume

Answer: D

Watch Video Solution

340. Practical significance of taxonomy is

A. To classify the organism

B. To understance diversity

C. To understand evolution

D. Identification of organisms

Answer: D

Watch Video Solution

341. Coenocytic mycelium is formed in

A. Ustilago

B. Saccharomyces

C. Rhizopus

D. Alternaria

Answer: C

Watch Video Solution

342. Adaptations to plants against dry environmental conditions is / are

A. Stomata arranged in deep pits

B. Stomata remain open during day time

C. CAM pathway

D. More than one option is correct

Answer: D

Watch Video Solution

343. The meristem which occurs in grasses and regenerates parts removes by the grazing hervibores is

A. Apical meristem

B. Intercalry meristem

C. Secondary meristem

D. Cambium

Answer: B

Watch Video Solution

344. Which of following are the steps of genetic engineering ?

A. Isolation of DNA

B. Fragmentation of DNA by restriction endonuclease.

C. Isolation of the desired DNA fragments.

D. All of these

Answer: D

Watch Video Solution

345. In man the axial skeleton is made up of

A. 80 bones

B. 100 bones

C. 103 bones

D. 106 bones

Answer: A

Watch Video Solution

346. Which of the following statement is correct regarding liverworts ?

A. The thallus is dorsiventral and closely appressed to the substrate

B. They are monoecious as well as dioecious

C. Asexual reproduction by fragements or gemma cups.

D. More than one option is correct

Answer: D

Watch Video Solution

347. What is true about ecosystem ?

A. Primary consumers are least dependent upon producers

B. Primary consumers out-number producers

C. Producers are more than primary consumers

D. Secondary consumers are the largest and most powerful

Answer: C

Watch Video Solution

348. Phyllode is present in :-

A. Asparagus

B. Euphorbia

C. Australian Acacia

D. Opuntia

Answer: C

Watch Video Solution

349. The rupture of the Graafian follicle and the release of ovum occurs under the infuence of

A. LH

B. FSH

C. MSH

D. GH

Answer: A

Watch Video Solution

350. A lake with an inflow of domestic sewage rich in organic waste may result in

A. drying of the lake very soon due to algal bloom

B. an increased production of fish due to lot of nutrients

C. death of fish due to lack of oxygen

D. increased complexity of the squatic food web

Answer: C

Watch Video Solution

351. How many bacteria are produced in four hours if a bacterium divides once in half an hour ?

A. 8

B. 64

C. 16

D. 256

Answer: D

Watch Video Solution

352. Underground parts of some plants spread to new niches and when older parts die new plants are formed. This condition is seen in

A. Banana and pineapple

B. Jasmine and mint

C. Grass and strawberry

D. Chrysanthemum and Pistia

Answer: C

Watch Video Solution

353. Contraction of diaphragm during inhalation

A. It decreases the volume of the thoracic chamber in the anteroposterior axis

B. It increases the volume of the thoracic chamber in the dorso-ventral axis

C. It increases the volume of the thoracic chamber in the anteroposterior axis.

D. It decreases the volume of the thoracic chamber in the dorso-ventral axis.

Answer: C

Watch Video Solution

354. Which of the following is a pair of bacterial diseases ?

A. Typhoid and Pneumonia

B. Malaria and AIDS

C. Ringworm and AIDS

D. Common cold and Malaria

Answer: A

Watch Video Solution

355. Which of the statements supports that a flower is a highly condensed and modified part of the plant body?

A. Anatomically, the pedicel and thalamus of a flower resembles that of a flower.

B. Except for the lower internode, other internodes are condensed forming a broad base called thalamus.

C. The flower may develop in the axis of a small leaf-like structure called bract.

D. All of the above

Answer: C

Watch Video Solution

356. In a medico legal case of accidental interchange between two babies in a hospital, the baby of the blood group 'A' could not be rightly given to a couple with:

A. Husband of O group and wife of AB group

B. Husband of A group and wife of O group

C. Husband of B group and wife of O group

D. Husband of AB group and wife of A group

Answer: C

Watch Video Solution

357. How many microspore mother cells will give rise to 256 microspores after reduction division ?

A. 512

B. 128

C. 64

D. 96

Answer: C

Watch Video Solution

358. Which of the following statement is incorrect w.r.t. class cyclostomata?

A. All the members are ectoparasites on some fishes

B. Their body is devoid of scales and paried fins

C. Circulation is of opentype

D. They are marine but migrate for spawning to fresh water

Answer: C

Watch Video Solution

359. A type of granulocyte and agranulocyte

(i) are phagocytic cells that destroy foreign organisms entering the body.

(ii) secrete histamine, serotonin, heparin, etc., and are involved in inflammatory reactions.

(iii) resist infections and are also associated with allergic reactions.

(iv) are responsible for the immune responses of the body.

A.

i	ii	iii	iv
Monocytes	Neutrophils	Basophils	Eosinophils

B. (i, ii, iii, iv), (Neutrophils, Basophils, Eosinophils$Monocytes$)

C.

i	ii	iii	iv
Neutrophils	Monocytes	Eosinophils	Basophils

D.

i	ii	iii	iv
Monocytes	Neutrophils	Eosinophils	Basophils

Answer: B

Watch Video Solution

360. Which of the following statement about human population is correct ?

A. The world population was around 7.2 billion by 2000

B. India's population reached close to 1.2 billion by 2000

C. India' populatioin was approximately 350 million at the time of independence

D. According to the 2011 census report, the population growth rate was more than 2 percent.

Answer: C

Watch Video Solution

361. Asexual reproduction in sponges occurs by

A. Parthenogenesis

B. Budding

C. Fragmentation

D. Spores

Answer: C

Watch Video Solution

362. The development of male gametophyte in angiosperms is

A. Partly in-situ in anther and partly ex-situ on stigma.

B. Fully in-situ in anther

C. Fully Ex-situ on stigma

D. In-vitro only

Answer: A

Watch Video Solution

363. Which of the following is the correct description of follicular phase of menstrual cycle?

A. Primary follicles in the ovary grow to become a fully mature Graafian follicle and simultaneously and endometrium of uterus regenerates through proliferation.

B. The corpus luteum secretes large amounts of progesterone which is essential for maintenance of the endometrium

C. Both LH and FSH attain a peak level about 10^{th} day leading to rupture of Graafin follicle.

D. These change in the ovary and the uterus and induced by changes in the levels of adrenal gland.

Answer: A

Watch Video Solution

364. A total of 512 seeds are collected from the cross between $AaBb \times AaBb$. Find the number of plants produced with the genotype Aabb and Aabb.

A. 35

B. 350

C. 96

D. 285

Answer: C

Watch Video Solution

365. Modern Homo sapiens arose during ice age between

A. 15,000 - 5000 years ago

B. 5 million years ago

C. 15 million years ago

D. 75,000 - 10,000 years ago

Answer: D

Watch Video Solution

366. A. The conditions primitive on earth (before the origin of life) were : low temperature, volcanic storms, reducing atmosphere containing Ch_4, NH_3, etc.

B. Cheetah and humans share similarities in the pattern of bones of forelimbs.

C. In a collection of moths made in the 1850s i.e., before industrialization set in, it was observed that there were more dark-winged moths on trees than white-winged moths.

D. Branching descent and natural selection are the two key concepts of Darwinian theory of evolution.

E. The Neanderthal man with a brain size of 1400 cc lived in east and central Asia 25,000-10,000 years ago.

Which set of given statements are correct ?

A. A , B, E

B. B,D

C. A,C,E

D. B,C,D

Answer: B

Watch Video Solution

367. Select the incorrect information given regarding ascariasis.

A. Common name of causative agent: Round worm

B. Organ in which adult pathogen is found-Colon

C. Symptoms: Internal bleeding, musulur pain, fever anemia and blockage of the intestinal passage.

D. Mode of infection: Contaminated soil, water and plants.

Answer: B

Watch Video Solution

368. Fishery is an industry devoted to the catching, processing or selling of fish, shellfish or other aquatic animals. Some of the very common freshwater fishes include

A. Catla, rohu and common carp

B. Hilsa, common carp and pomfrets

C. Catla, rohu and sardine

D. Hilsa, sardines , mackerel and pomfrets

Answer: A

Watch Video Solution

369. In biolistic method of gene trasfer, the microparticles coated with foreign DNA are bombarded into target cells at a very high velocity. These microparticles are made up of

A. silver or tungsten

B. Arsenic or silver

C. Gold or tungsten

D. None of these

Answer: C

Watch Video Solution

370. The number of death and birth in the last stage of sigmoid growth curve of a population will be

A. Similar to lag phase

B. Unequal with more deaths

C. Unequal with less deaths

D. Equal

Answer: D

Watch Video Solution

371. Which of the following is correct regarding the ecosystem?

A. There is cyclic exchange of materials between living beings and environment.

B. The flow of energy is unidirectional

C. It is a self-regulating unit

D. All of these

Answer: D

Watch Video Solution

372. Select the incorrect match from the following:

A. Musca domestica : Diptera (Order)

B. Mangifera indica: Anacardiaceae (Family)

C. Solanum melogena:Polymoniales (Order)

D. Panthera tigris-Canidae(Family)

Answer: D

Watch Video Solution

373. Which one of the following statements about viruses is correct?

A. Viruses posses their own metabolic system

B. Viruses contain either DNA or RNA

C. Viruses are facultative parasites

D. Viruses are readily killed by antibodies

Answer: B

Watch Video Solution

374. Excretory system is absent in

A. Echinodermata

B. Mollusca

C. Annelids

D. Arthropods

Answer: A

Watch Video Solution

375. In the given table, each phylum is paired with a set of characters. Select the option with an incorrect set of information about the given phyla of animals.

I. Echinodermata	P - Radula for feeding; Q - Water vascular system
II. Aschelminthes	R - Complete alimentary canal with muscular pharynx; S - Internal fertilization
III. Ctenophora	T - Internal fertilization; U - Sexual reproduction only

A. R,S,T

B. P,T

C. P,S,T

D. P,Q,U

Answer: B

Watch Video Solution

376. In cymose inflorescence

A. Main axis terminates in a flower

B. Main axis is of indefinite growth

C. Flower are borne in basipetal order

D. Both [a] and [c]

Answer: D

Watch Video Solution

377. As a tree grows very old, which of the following increases more rapidly in thickness?

A. Cortex

B. Heartwood

C. Phloem

D. Pericycle

Answer: B

Watch Video Solution

378. The transverse section of a plant material shows the following anatomical features, (a) the vascular bundles are conjoint, scattered and surrounded by clerenchymatous undle sheaths (b) phloem parenchyma is absent. What will you identify it as?

A. Dicot stem

B. Monocot stem

C. Dicot root

D. Monocot root

Answer: B

Watch Video Solution

379. Periplaneta americana is a very common species of cockroach. It is

A. Ureotelic

B. Uricotelic

C. Ammonotelic

D. Guanotelic

Answer: B

Watch Video Solution

380. Read the following statements.

A. Cartilage is present in between atlas and axis.

B. In epithelium, cells are compactly arranged with the little intercellular matrix.

C. The simple epithemlium consists of a two or more layer of cells.

How many of the above statement are incorrect ?

A. None

B. One

C. Two

D. All

Answer: C

Watch Video Solution

381. Which of the following cell organelles are involved in the manufacturing of various substances?

A. Lysosome, Vacuole, Ribosome

B. Ribosomes, RER, SER

C. Vacuole, RER, SER

D. SER, Ribosome, Centriole

Answer: B

Watch Video Solution

382. Select the incorrect statement.

A. Lipid are insoluble in water

B. Glycerol is trihydoxy propane

C. Lecithin is a glycoprotein

D. Adenosine is a nucleoside

Answer: C

Watch Video Solution

383. The X-shaped structures formed during the largest stage of meiosis-I are called

A. Bivalent

B. Chiasmata

C. Cross-overs

D. More than one option is correct

Answer: B

Watch Video Solution

384. Transpiration has more than one purpose. Which of the following is not the purpose of transpiration?

A. Creates transpiration pull for absorption and transport in plants.

B. Cools leaf surfaces by evaporative cooling

C. Transports minerals from the soil to all parts of the plant.

D. Gives high tensile strength to water column present in xylem.

Answer: D

Watch Video Solution

385. Manganese toxicity causes:

A. Reduces uptake of magnesium and iron

B. Inhibit translocation of Ca^{2+}

C. Yellow spots surrounding chlorotic veins

D. Both (a) and (b)

Answer: D

Watch Video Solution

386. Effectiveness of different wavelength of light on photosynthesis is measured by

A. Quantum yield

B. Quantum requirement

C. Absorption spectrum

D. Fluorescence

Answer: C

Watch Video Solution

387. Number of oxygen atoms reuqired for oxidation of $2NADH_2$ molecules in ETS is

A. 1

B. 2

C. 3

D. 4

Answer: B

Watch Video Solution

388. Arithmetic growth curve is represented by which of the following equation?

A. $w_t = w_0 e^{rt}$

B. $L_0 = L_t + rt$

C. $L_t = L_0 + rt$

D. $2L_t = L_0 - rt$

Answer: C

Watch Video Solution

389. Which of the following disease is the result of the reflex action of medulla oblongata?

A. Indigestion

B. Vomiting

C. Constipation

D. Diarrhoea

Answer: B

Watch Video Solution

390. Which of the following is most suitable description for trachea?

A. Straight tube, extending upto the mid-thoracic cavity and divides at the level of 5^{th} thoracic vertebra.

B. Straight tube, extending upto the mid-thoracic cavity and divides at the level of 3^{rd} thoracic vertebra.

C. Straight tube, extending upto the neck and divides at the level of 5^{th} cervical vertebra

D. Curved tube, extending upto the mid-thoracic cavity and divides at the level of 5^{th} thoracic vertebra.

Answer: A

Watch Video Solution

391. In which disease does a symptom of acute chest pain appear dueto enough oxygen not reaching the muscle ?

A. Angina pectoris

B. Atherosclerosis

C. Arteriosclerosis

D. Hypertension

Answer: A

Watch Video Solution

392. Read the following statements about the excretory system in humans:

I. A fall in GFR can activate the JG cells to release renin.

II. ADH can also affect the kidney function by its constrictory effects on blood vessels.

III. The proximity between the Henle's loop and vasa recta, as well as the counter-current in them help in maintaining an increasing osmolarity towards the outer medullary interstitium.

IV Our lungs remove large amounts of CO_2 (108 litres/day).

V. Renal calculi are the stone or insoluble mass of crystallised salts like oxalates within the kidney.

How many of these are correct?

A. None

B. One

C. Two

D. Three

Answer: C

Watch Video Solution

393. Which of the following organs is not a part of the limbic system?

A. Amygdala

B. Hippocampus

C. Inner pars of cerebral hemispheres

D. Cerebellum

Answer: D

Watch Video Solution

394. Which of the following is not the function of parathormone (PTH)?

A. Increases calcium level in blood

B. Decreases the reabsorption of calcium from the renal tubules

C. increases the calcium absorption from GIT

D. Decreases the movement of calcium to bones.

Answer: B

Watch Video Solution

395. Which of the following sets of elements delays flowering if their concentration in plants is low?

A. N, K, Mg , S

B. N , S, P

C. Ca, Mg , Cu

D. N, S, Mo

Answer: D

Watch Video Solution

396. The part of large intestine which appears as a blind sac and harbours some microoganisms is called :

A. Caecum

B. Vermiform appendix

C. Colon

D. Rectum

Answer: A

Watch Video Solution

397. Match the columns with their respective matches.

	Column I		Column II
P.	Inspiratory Capacity	I.	ERV + RV
Q.	Expiratory Capacity	II.	TV + ERV
R.	Functional Residual Capacity	III.	ERV + TV + IRV
S.	Vital Capacity	IV.	TV + IRV

A. P-III, Q-II, R-IV, S-I

B. P-IV, Q-I, R-III, S-II

C. P-III, Q-IV, R-I, S-II

D. P-IV, Q-II, R-I, S-III

Answer: D

Watch Video Solution

398. Citrus canker is a

A. Bacterial disease

B. Fungal disease

C. Viral disease

D. Prion disease

Answer: A

Watch Video Solution

399. Which of the following is correct about non-living objects?

A. Doesn't grow

B. Show intrinsic growth

C. Show extrinsic growth

D. Show both extrinsic and intrinsic growth

Answer: C

Watch Video Solution

400. Respiratory organs like gills, book gills, book lungs or tracheal system are found in phylum

A. Arthropoda

B. Aschelminthes

C. Mollusca

D. Chordata

Answer: A

Watch Video Solution

401. Nissl's graunles are located in

A. Cyton and Dendrites

B. Dendrites and Axon

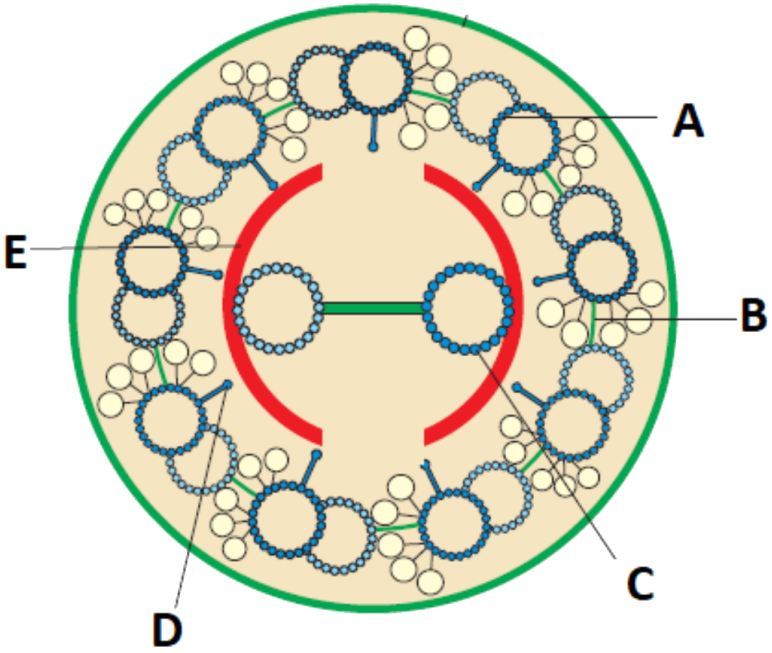
C. Axon and Cyton

D. Axon and Axon terminal

Answer: A

Watch Video Solution

402. Identify parts labeled A - E in the given figure.



A.

A	B	C
Peripheral microtubules	Interdoublet bridge	Central macrotubule

B.

A	B	C
Peripheral microtubules	Intertriplet bridge	Central microtubule

C.

A	B	C
Peripheral microtubules	Interdoublet bridge	Central microtubule

D.

A	B	C
Peripheral microtubules	Intertriplet bridge	Central macrotubule

Answer: C

Watch Video Solution

403. Water constitutes_____% of the total cellular mass.

A. 10

B. 30

C. 50

D. 90

Answer: D

Watch Video Solution

404. In mitosis, the centromeres split and chromatids separate during :

A. Metaphase

B. Anaphase

C. Prophase

D. Telophase

Answer: B

Watch Video Solution

405. A particular mineral element P activates various enzymes, especially nitrate reductase, Identify P.

A. Cu

B. Mo

C. Mg

D. Mn

Answer: B

Watch Video Solution

406. The serum has all of the following except

A. Ions

B. Glucose

C. Clotting factors

D. Amino acids

Answer: C

Watch Video Solution

407. Which of the following is not a part of renal tubules?

A. Glomerulus

B. PCT

C. DCT

D. Loop of Henle

Answer: A

Watch Video Solution

408. Photosynthesis is a

A. Physico-chemical process

B. Physical process

C. Chemical process

D. Catabolic process

Answer: A

Watch Video Solution

409. In males, FSH stimulates

A. Sertoli cells

B. Spermatogonia

C. Interstitial cells

D. cells of ejaculatory duct

Answer: A

Watch Video Solution

410. Milk yield is primarily dependent on

A. Quality of breed

B. Absence of disease

C. Quantity of roughage given to animal

D. Quantity of concentrate given to animal

Answer: A

Watch Video Solution

411. The number of chloroplast in chlamydomonas is _ _ _ _ _ _ and in a mesophyll cell, it ranges between _ _ _ _ _ _.

A. 1, 2 - 4

B. 2, 20 - 40

C. 20 - 40, 1

D. 1, 20 - 40

Answer: D

Watch Video Solution

412. Different cells have different sizes. Arrange the following cells in an ascending of their size and select the correct option.

(i) Mycoplasma (ii) Ostrich egg

(iii) Human RBCs (iv) Bacteria

A. $(i) \rightarrow (iv) \rightarrow (iii) \rightarrow (ii)$

B. $(i) \rightarrow (iii) \rightarrow (iv) \rightarrow (ii)$

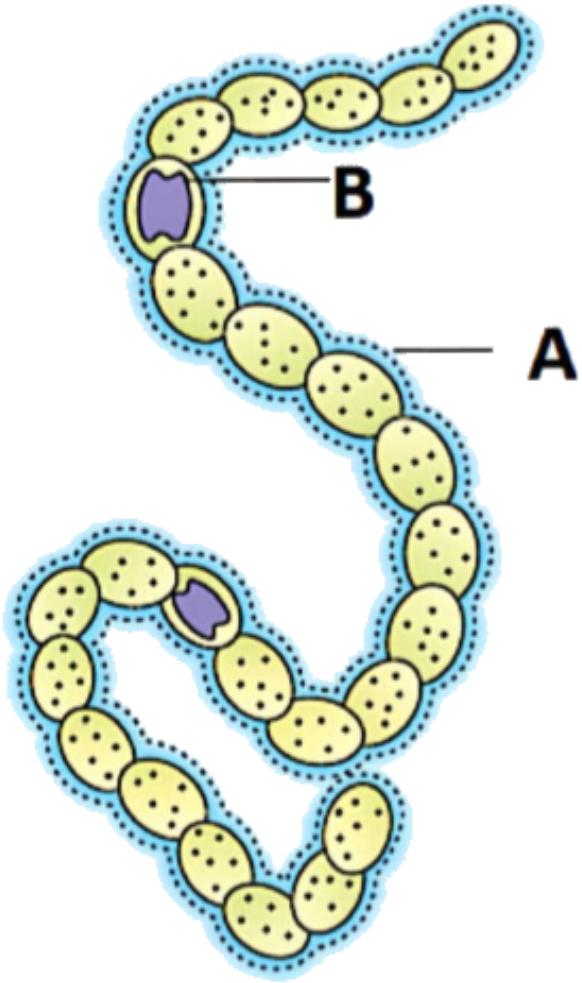
C. $(ii) \rightarrow (i) \rightarrow (iii) \rightarrow (iv)$

D. $(iii) \rightarrow (ii) \rightarrow (i) \rightarrow (iv)$

Answer: A

Watch Video Solution

413. Identify parts labeled A and B in the given diagram and selecte the correct option.



A. Anabaena-A: Heterocyst, B-Mucilagenous sheath

B. Nostoc - A: Hetercyst, B - Mucilagenous sheath

C. Azonspirillium - A: Mucilagenous sheath, B : - Heterocyst

D. Anabaena-A: Mucilagenous sheath, B : - Heterocyst

Answer: D

Watch Video Solution

414. Identify the correct option:

Biological Name	Family	Order	Class
Mangifera indica	A	B	C
Triticum aestivum	D	E	F

A. A-Anacardiaceae, B-Sapindales, C- Monocotyledonae, D-Poaceae, E-Poales, F- Dicotyledonae

B. A-Anacardiaceae, B-Sapindales, C- Dicotyledonae, D-Poaceae, E-Poales, F- Monocotyledonae

C. A-Poaceae, B-Sapindales, C- Dicotyledonae, D-Anacardiaceae, E-Poales, F- Monocotyledonae

D. A-Anacardiaceae, B-Poales, C- Dicotyledonae, D-Poaceae, E-Sapindales, F- Monocotyledonae

Answer: B

Watch Video Solution

415. Identify the incorrect pair.

A. Trypanosoma - protrozoan

B. Plankton-Float passively

C. Gonyaulax - Chitinous cell wall

D. Slime moulds - Saprophytic protists

Answer: C

Watch Video Solution

416. Identify the mismatch among the following.

A. Reptiles - Cleidoic eggs

B. Amphibians- Epidermal scales

C. Mammals - Corpus callosum

D. Aves - Pneumatic bones

Answer: B

Watch Video Solution

417. What set of characters belongs to the same phylum?

A. First true coelomates and mephridia as the excretory structures.

B. Pseudocoelomates and flame cells as the excretory structures

C. Acoelomates and metanephridia cells as the excretory structures

D. Eucoelomates and flame cells as the excretory structures.

Answer: A

Watch Video Solution

418. How many of the following statements are not correct?

[I] In a flowering plant the substances that would need to be transported are water, mineral nutrients, organic nutrients and plant growth regulators.

[II] Over small distances, substances move by diffusion and by cytoplasmic streaming supplemented only by passive transport.

[III] Organic and mineral nutrients undergo multidirectional transport through the xylem.

[IV] From the storage organs, organic compounds are later re-exported.

[V] Phytohormones and other chemical signals are transported to maintain and regulate the plant functions.

A. Two

B. Three

C. Four

D. Five

Answer: A

Watch Video Solution

419. Mark out the number of incorrect statement/s:

[I] Some essential elements can alter the osmotic potential of a cell.

[II] Nitrogen is required by the meristematic tissue and the metabolically active cells only.

[III] Mg^{2+} is needed by several respiratory enzymes.

[IV] Mo is essential for the water-splitting reaction in photosynthsis, a reaction that leads to oxygen evolution.

[V] Sulphur is the main constituent of several coenzymes, vitamins (thiamine, biotin, coenzyme-A) and ferrodoxin.

A. Two

B. Three

C. Four

D. Five

Answer: A

Watch Video Solution

Watch Video Solution

420. Which of the following are the sturctural and functional units of liver?

A. Hepatic peritoneum

B. Hepatic lobules

C. Ligamentum teres

D. Falciform ligament

Answer: B

Watch Video Solution

421. The most notable diseases caused by prions are A_____ commonly called B_____ in cattle and its analogous variant C_____ in humans.

A. A - Cr- Jacob disease, B - Mad cow disease, C - Bovine spongiform encephalopathy

B. A - Bovine spongiform encephalopathy, B - Mad cow diseases, C - PSTV d

C. A - Bovine spongiform encephalopathy, B - Mad cow diseases, C - Cr-Jacob disease

D. A - Cr- Jacob disease, B - Mad cow disease, C - PSTV d

Answer: C

Watch Video Solution

422. Select the incorrect statement.

A. Jawless fishes have 6-15 pairs of gill slits.

B. Reptiles have three-chambered heart except crocodile and cleidoic eggs

C. Chordates have a solid dorsal nerve cord & notochord

D. Urochordata and Cephalochordata are often referred to as protochordates.

Answer: C

Watch Video Solution

423. Plants with edible roots include:

A. Turnip, Banyan , Asparagus

B. Radish , Carrot , Rhizophora

C. Carrot, Turnip, Maize

D. Carrot, Radish, Sweet potato

Answer: D

Watch Video Solution

424. Which of the following is not the feature of cardiac muscle?

A. Communication juctions are intervertebral disc

B. They show branching pattern

C. Stimulation received by one cell is passed to neighbouring cells

D. They are striated in nature

Answer: A

Watch Video Solution

425. Which of the following set represent the members of Solanaceae family?

A. Belladonna, Ashwagandha, Petunia

B. Datura, Indigofera, Tomato

C. Brinjal, Chilli, Sunhemp

D. Potato, Brinjal, Lupin

Answer: A

Watch Video Solution

426. Companion cells are present in the phloem of

A. Pteriophytes

B. Gymnosperms

C. Angiosperms

D. Both 1 and 2

Answer: C

Watch Video Solution

427. Vision in cockroach is

A. Internal

B. External, in the water

C. external , in the cocoon

D. Internal , in the cocoon

Answer: A

Watch Video Solution

428. Vessels differ from tracheids in having

A. In being living

B. Presence of perforation plates at both ends

C. Enucleated condition

D. All of the above

Answer: B

Watch Video Solution

429. During muscle contraction, what could be the correct sequence ?

A. Release of calcium ions into the sarcoplasm.

B. Release of Acetylcholine.

C. Sliding of actin filaments over each other.

D. Break down of ATP to form a cross bridge.

A. A-D-B-C

B. A-B-D-C

C. B-A-C-D

D. B-A-D-C

Answer: D

Watch Video Solution

430. Which of the following is correct about metaphase - I ?

A. Bivalents are arranged at equator

B. Univalents are arranged at equator

C. Non-homologus chromosomes forms pair

D. Spindle fibers are attached at chromomere

Answer: A

Watch Video Solution

431. Which of the following is correct about organism develop through parthenogenesis?

A. They show a 50% similarity to father

B. They show a 50% similarity to mother

C. They show a 100% similarity to father

D. They show a 100% similarity to mother

Answer: D

Watch Video Solution

432. Which of the following is an importan function of cortisol ?

A. Maintains cardio - vascular system as well as the kidney functions .

B. Absorption of calcium from gut.

C. Absorption of water in PCT

D. Absorption of iron from gut

Answer: A

Watch Video Solution

433. Angiotensin-II will perform all the following except

A. Vasoconstriction

B. Hypernatremia

C. Increasing GFR

D. Excretion of Na^+ in urine

Answer: D

Watch Video Solution

434. The human placenta does not secrete which of the following hormone?

A. Human chorionic gonadotropin (hCG)

B. Human placental lactogen (hPL)

C. Androgens

D. Progestogens

Answer: C

Watch Video Solution

435. Inner layer of male gametophyte in Angiosperm is mainly composed of

A. Polymer of amino acids

B. Polymer of nucleotide

C. Polymer of lipid

D. Polymer of carbohydrate

Answer: D

Watch Video Solution

436. During embryonic development of human, limbs, and digits are formed during

A. First month of pregnancy

B. Second month of pregnancy

C. Third month of pregnancy

D. Seventh month of pregnancy

Answer: B

Watch Video Solution

437. Barr body is absent in

A. Klinefelter's syndrome

B. Turner's syndrome

C. Normal female

D. Down syndrome in female

Answer: B

Watch Video Solution

438. The frequency of crossing over between any two linked genes is

A. Higher if they are recessive

B. Determined by their relative dominance

C. The same as if they were not linked

D. Directly proportional to the distance between them

Answer: D

Watch Video Solution

439. Saheli' is a contraceptive drug. Select the incorrect statement about it

A. Oral drug

B. Non-steroidal

C. Once a month pill

D. High contraceptive value

Answer: C

Watch Video Solution

440. Experimental proof of theory of chemical evolution of life was given by

A. Hershey and Chase

B. Oparin and Haldane

C. Urey and Miller

D. Alfred Wallace

Answer: C

Watch Video Solution

441. Biotic potential refers to

A. Increase of population under optimum conditions

B. Increase of population under given conditions

C. Increase of population under natural conditions

D. Increase of population under climatic conditions

Answer: A

Watch Video Solution

442. Which of the following factors may result in introduction of new variations ?

A. Gene mutation

B. Genetic recombination

C. Stabilizing natural selection

D. Immigration of individuals

Answer: A

Watch Video Solution

443. Identify the correct sequence of stages in the evolution of modern humans.

I. Neanderthal man

II. Cro-Magnon man

III. Australopithecines

IV. Homo habilis

V. Homo erectus

VI Modern human

A. IV, III. V, II, I , VI

B. III,V,IV,II,I,VI

C. III,IV,V,I,II,VI

D. III,IV,V,II,I,VI

Answer: C

Watch Video Solution

444. The female mosquito is the vector for which of the following diseases?

A. Typhoid and Polio

B. Plague and Rabies

C. Common cold and Ringworm

D. Filariasis and Malaria

Answer: D

Watch Video Solution

445. Which of the following statement is not correct?

A. Ecosystem is an open system

B. Ecosystem is self-sustaining and dynamic structure

C. Sun is the ultimate source of energy for any ecosystem

D. In an artificial ecosystem flow of energy is not unidirectional

Answer: D

Watch Video Solution

446. Which of the following is not true about succession?

A. It is a natural process of change in species structure and community with time

B. It is a gradual and predictable change

C. Progressive increase in the amount of living biomass as succession proceeds

D. Food chain relationship becomes less complex as succession proceeds

Answer: D

Watch Video Solution

447. Which of the following is an autoimmune disease?

A. Muscular dystrophy

B. Gout

C. Myasthenia gravis

D. Osteoporosis

Answer: C

Watch Video Solution

448. How many of the given statements are not incorrect?

I. The plasmid is autonomously replicating circular extra-chromosomal DNA.

II. Ligase enzyme belongs to a larger class of enzymes called nucleases.

III. DNA fragments are negatively-charged molecules.

IV. E.coli always has genes encoding resistance to antibiotics such as ampicillin and chloramphenicol.

A. One

B. Two

C. Three

D. Four

Answer: B

Watch Video Solution

449. Mark the incorrect pair

A. Bt cotton - Genes from Agrobacterium

B. SCID - ADA defucuebcy

C. Rosie - a lactalbumin

D. Ely-lily-Humulin

Answer: A

Watch Video Solution

450. Match the column-I with column-II.

	Column-I		Column-II
A	Wheat	I	Pusa Shubhra
B	Cauliflower	II	Pusa Gaurav
C	*Brassica*	III	Pusa Komal
D	Chilli	IV	Sonalika
		V	Pusa Sadabahar

A. A-IV, B-I, C-II,D-III

B. A-IV, B-III, C-II,D-V

C. A-IV, B-I, C-II,D-V

D. A-III, B-I, C-II,D-IV

Answer: C

Watch Video Solution

451. Natural parthenogenesis occurs in

A. Frog to form female

B. Honeybee to produce drones

C. Cockroach

D. Grapes

Answer: B

Watch Video Solution

452. Select the incorrect match.

A.

Seminiferous tubules	Each lobule contains one to three highly coiled seminiferous tubules in which sperms are produced. These open into the vasa efferentia through rete testis.

B.

Fallopian tube	The fallopian tube is about 10-12 cm long and extends from the periphery of each ovary to the uterus. The oviducts (fallopian tubes), uterus and vagina constitute the female accessory ducts.

C.

Semen	At least 60% sperms must have normal shape and size and for at least 40% of them must show vigorous motility. The seminal plasma along with the sperms constitute the semen.

D.

Secondary ovarian follicle	Primary follicles get surrounded by more layers of granulosa cells to become secondary follicles. In the secondary ovarian follicle, the theca layer is organised into an inner theca interna and an outer theca externa.

Answer: D

Watch Video Solution

453. All of the following statements are correct about active immunity, except

A. It is slow and takes time to give its full effective response.

B. Memory cells are formed.

C. Antibodies are not formed during primary response.

D. Exposure of antigen is a pre-requisite for the development of active immunity.

Answer: C

Watch Video Solution

454. Which of the following variety is resistant to white rust?

A. Parbhani kranti

B. Himgiri

C. Pusa Komal

D. Karan rai

Answer: D

Watch Video Solution

455. Out-breeding is the breeding of unrelated animals. It includes

A. Inbreeding only

B. Inbreeding + Cross-breeding

C. Out-crossing + Cross-breeding

D. Out-crossing + Cross-breeding+ Interspecific hybridization

Answer: D

Watch Video Solution

456. During which stage of sewage treatment microbes are used

A. Primary treatment

B. Secondary treatment

C. Tertiary treatment

D. All of these

Answer: B

Watch Video Solution

457. What is insertional inactivation?

A. Inactivation of the host cell.

B. Inactivation of plasmid

C. Inactivation of the gene for the synthesis of the enzyme.

D. Inactivation of ori site

Answer: C

Watch Video Solution

458. ELISA is based on the principle of

A. Antigen-antibody interaction

B. Antigen-antigen interaction

C. Antibody-antibody interaction

D. None of these

Answer: A

Watch Video Solution

459. The term 'niche' of a species refers to

A. Specific place

B. The specific place where an organism lives and the role it plays

C. Competitive power of an organism

D. Specific function of an organism

Answer: B

Watch Video Solution

460. Introduction of exotic species in an area can have deleterious effects on biological communities by

A. Displacing native species

B. Preying on native species

C. Competing with native species for food/shelter

D. All of the above

Answer: D

Watch Video Solution

461. Which of the following will result in cultural eutrophication ?

A. It is the natural aging of a lake by nutrient enrichment of its water.

B. It is caused due to pollutants arising as a result of human activities like effluents from the industries and homes.

C. It is caused due to the release of organic nutrients

D. It is caused due to the release of heated effluents.

Answer: B

Watch Video Solution

462. Which of the following is related to integrated waste water treatment process within a natural system?

A. The system created by Ramesh Chandra Dagar

B. Jhum cultivation

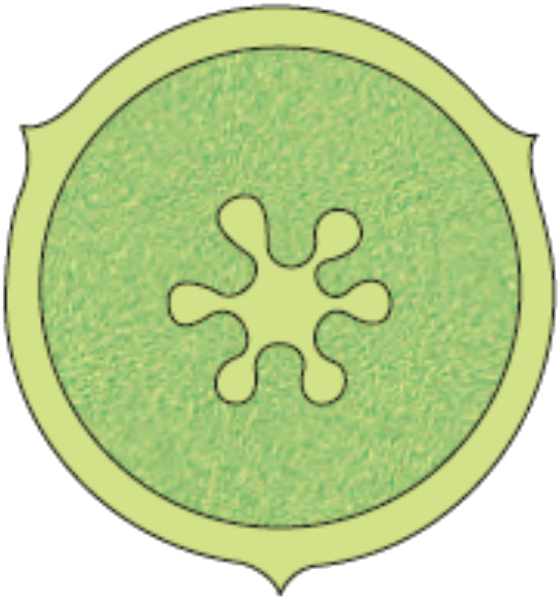
C. Formation of polyblend

D. Friends of Arcata Marsh (FOAM)

Answer: D

Watch Video Solution

463. The type of placentation shown in the given diagram is



A. Axile

B. Parietal

C. Free central

D. Poales, floral

Answer: C

Watch Video Solution

464. Plasmids present in the bacterial cells are :

A. Circular double stranded helical DNA molecules

B. Circular double stranded helical RNA molecules

C. Linear double stranded helical RNA molecules

D. Linear double stranded helical DNA molecules

Answer: A

Watch Video Solution

465. From the point of evolutionary complexity, which one of the following is most advanced?

A. Chlamydomonas

B. Funaria

C. Selaginella

D. Pinus

Answer: D

Watch Video Solution

466. Pseudopopdia are found in_____ and help in_____

A. Amoeba, swimming

B. Plasmodium, phagocytosis

C. Amoeba, phagocytosis

D. Paramecium, locomotion

Answer: C

Watch Video Solution

467.

Phylum	Level of organisation	Digestive system	Respiratory sy
Aschelminthes	A	Complete	absent
Echinodermata	Organ system	B	Present
Platyhelminhes	Organ	Incomplete	C
Annelida	Organ system	Incomplete	D

Select the option with correct identification of A, B, C, and D.

A. A - organ, B - Complete, C-Present, D- Absent

B. A - organ system, B - Complete, C - Absent , D - Absent

C. A - organ system, B - Incomplete , C- Absent, D - Present

D. A - organ system, B - Incomplete , C - Present , D - Absent

Answer: B

Watch Video Solution

468. Which of the following set correctly represents charcateristics of family Liliaceae?

A. Tricarpellary, trilocular, axile placentation, zygomorphic

B. Tricarpellary, trilocular, parietal placentation, zygomorphic

C. Tricarpellary, trilocular, axile placentation, actinomorphic

D. Bicarpellary, trilocular, axile placentation, actinomorphic

Answer: C

Watch Video Solution

469. If T.S. of young dicot stem is stained with Iodine solution, which of the following region will be stained dark blue?

A. Cortex

B. Pericycle

C. Endodermis

D. Cambium

Answer: C

Watch Video Solution

470. In Periplaneta americana, the ventral sclerite is called

A. Pleurite

B. Clitellum

C. Sternite

D. Tergite

Answer: C

Watch Video Solution

471. Identify the incorrect match.

A. Blood group A - Anti-A (Antibodies in plasma)

B. Platelets - Megakaryocytes (Cells that fragment to produce platelets)

C. Lymphocytes - 20-25% (Percentage among WBCS)

D. Granulocytes - Eosinophils, basophils, and neutrophils

Answer: A

Watch Video Solution

472. How many of the following functions can be correctly correlated with loop of Henle ?

A. Reabsorption of nearly all of the essential nutrients.

B. Reabsorption in this segment is minimum.

C. A significant role in the maintenance of high osmolarity of medullary interstitial fluid.

D. Reabsorption of 70-80 percent of electrolytes and water.

E. Conditional reabsorption of Na^+ .

A. One

B. Two

C. Three

D. None

Answer: B

Watch Video Solution

473. The enzyme that catalyzes the digestion of food belongs to the class of enzymes

A. Transferase

B. Hydrolase

C. Lyases

D. Ligases

Answer: B

Watch Video Solution

474. For the stages of the cell cycle, select the correct option.

A. A chromosome is arranged at the equator - Metaphase.

B. Centromere splits and chromatids are separated - Anaphase I.

C. The pairing between homologous chromosomes takes place - Zygotene.

A. A and B

B. A and C

C. B and C

D. A, B and C

Answer: B

Watch Video Solution

475. Lowering in magnitude of water potential due to dissolution of a solute is called.

A. Solute potential (Ψ_s)

B. Pressure potential (Ψ_p)

C. Turgor pressure

D. Suction pressure

Answer: A

Watch Video Solution

476. Excess of manganese may induce the deficiencies of

A. Mg

B. Iron

C. Calcium

D. All of these

Answer: D

Watch Video Solution

477. Regeneration of each RuBP in C_3 cycle requires

A. 1 ATP

B. 6 ATP

C. 1 ATP and 1 NADPH+ H^+

D. 3 ATP and 2 NADPH+ H^+

Answer: B

Watch Video Solution

478. Select the incorrect statement.

A. Cytochromes are found in cristae of mitochondria

B. After glycolysis, fate of glucose in mitochondrial matrix is reduction

C. Net gain of ATP in aerobic respiration is 36 ATP

D. There is one step in Kreb's cycle where FAD^+ reduced to $FADH_2$

.

Answer: B

Watch Video Solution

479. Cell wall thickening, protoplasmic modification, and functional specialization are observed in which phase of growth?

A. Phase of cell division

B. Phase of elongation

C. Phase of maturation

D. Phase of growth

Answer: C

Watch Video Solution

480. Digestion is considered complete when the substrate is broken into a form that is

A. smaller

B. masticated

C. mixed with gastric juice

D. absorbable

Answer: D

Watch Video Solution

481. What will be the additional volume of air that a person can expire by a forcible expiration?

A. 500 mL

B. 1100 mL

C. 2300 mL

D. 3000 mL

Answer: B

Watch Video Solution

482. Which of the following statements is incorrect ?

I. Each Malpighian tubule in cockroach is lined by glandular and ciliated cells.

II. Most of the species of cockroach are of no economical importance.

III. Fat bodies in cockroach play an important role in reproduction.

IV. The cockroach is ammonotelic in the rainy season.

A. I, III

B. I, III, IV

C. III, IV

D. II, IV

Answer: C

Watch Video Solution

483. Nucleolus usually associates with chromatin (or chromosomes) at a specific site called

A. Nucleolar organiser region (NOR)

B. Chromosome

C. Nucleoplasm

D. Nuclear membrane

Answer: A

Watch Video Solution

484. The non-myelinated neurons can be located in

A. CNS and somatic nervous system

B. CNS and autonomous nervous system

C. CNS only

D. Autonomous and somatic neural system

Answer: D

Watch Video Solution

485. Some cells in testis secrete testosterone and the hormone stimulating such cells are released in blood by

A. Seminal vesicles

B. Testis itself

C. Hypothalamus

D. Anterior pituitary

Answer: D

Watch Video Solution

486. Silencing of a gene could be achieved through the use of :

A. RNAi only

B. Antisense RNA only

C. Both RNAi and antisense RNA

D. Single stranded DNA only

Answer: C

Watch Video Solution

487. What is the role of germ pore in pollen grain?

A. Emergence of pollen tube

B. Emergence of plumule

C. Emergence of radical

D. Emergence of hypocotyls

Answer: A

Watch Video Solution

488. Which of the following organisms possesses characteristics of both a plant and an animal?

A. Paramecium

B. Mycoplasma

C. Euglena

D. Bacteria

Answer: C

Watch Video Solution

489. Which among the following is a pair of high yielding crop varieties resistant to water stress developed in India?

A. Maize and Sugarcane

B. Jowar and Maize

C. Bajra and Gram

D. Jowar and Wheat

Answer: B

Watch Video Solution

490. The Ministry of Environment and Forest has initiated which plan to save major rivers of our country?

A. Ganga action plan

B. Yamuna action plan

C. Fermentation plan

D. Both (a) and (b)

Answer: D

Watch Video Solution

491. Malpighian tubules in Periplaneta americana are _____in number and _____coloured.

A. 50-60, green

B. 50-60, yellow

C. 100-150, green

D. 100-150, yellow

Answer: D

Watch Video Solution

492. Which amino acid plays a central role in nitrogen metabolism?

A. Glutamic acid

B. α -ketoglutaric acid

C. Aspartic acid

D. Aminated keto acid

Answer: A

Watch Video Solution

493. Major limiting factor for photosythesis in C_3 plants is

A. CO_2

B. Temperature

C. Light

D. Water

Answer: A

Watch Video Solution

494. Which one of the following is incorrectly matched?

A. Ribozyme - 23s rRNA

B. lacA - Permease

C. EST_S - Satellite DNA

D. Chromosome 1 - 2968 genes

Answer: B

Watch Video Solution

495. Select the incorrect information given about the disease commonly caused by these fungal genera: Microsporum, Trichophyton and Epidermophyton.

A. Common symptoms- Appearance of dry, scaly and itchy lesions on various parts of the body.

B. Favourable conditions for disease - In winter and dry conditions.

C. Common areas involved - Skin folds, nails, scalp, groin and between the toes.

D. Mode of infection From soil or by using towels, clothes or even the comb of infected individuals.

Answer: B

Watch Video Solution

496. How many of the following plants have an association with Rhizobium? [Sweet pea, Lentils, Garden pea, Alfalfa, Alnus, Frankia, Soybean, Clover beans]

A. 5

B. 6

C. 7

D. 8

Answer: B

Watch Video Solution

497. Select the set of incorrect statements from the ones given below.

A. Plasma is straw coloured and viscous in nature.

B. Eosinophils are 2-3% of total WBC_S .

C. Lymphocytes are the second-most abundant agranulocytes.

D. Stroke volume is the amount of blood that each ventricle pumps during one minute.

A. A, B and D

B. C and D

C. A and B

D. A and D

Answer: B

Watch Video Solution

498. Which of the following is not true?

A. Virus-free plants can be produced by meristem culture.

B. Somaclonal variations may be present in plants produced from callus.

C. Somaclonal variations are caused due to recombination during meiosis.

D. Cellular totipotency was first demonstrated by F.C. Steward

Answer: C

Watch Video Solution

499. Which of these ecosystems has the lowest net primary production per square meter?

A. A coral reef

B. An open ocean

C. A grassland

D. A marshy area

Answer: B

Watch Video Solution

500. Which of the following set of hormones are supposed to have intracellular receptors?

A. Estrogen, testosterone, aldosterone

B. Thyroxine, insulin, glucagon

C. Epinephrine, cortisol, ADH

D. Oxytocin, glucagon, insulin

Answer: A

Watch Video Solution

501. In light reaction for the synthesis of ATP, the site is

A. Cytoplasm

B. Stromal side of the thylakoid membrane

C. Lumen side of the thylakoid membrane

D. Inter-membrane space

Answer: B

Watch Video Solution

502. Archaebacteria can survive better than other bacteria in unfavourable conditions because of their

A. Food

B. Mesosomes

C. Cell wall

D. Plasmids

Answer: C

Watch Video Solution

503. The element which prevents bursting of the pollen tube and helps in pollen germination is

A. K

B. B

C. Fe

D. H_2O

Answer: B

Watch Video Solution

504. RNA Polymerase III transcribe

A. 28S rRNA

B. hnRNA

C. 5.8S rRNA

D. 5S rRNA

Answer: D

Watch Video Solution

505. Select the correct statement from the following.

A. Notochord is found in all chordates.

B. Pharynx is perforated by gill slits in non- chordates.

C. Hearts is dorsal in birds.

D. Both (A) and (C) are correct.

Answer: A

Watch Video Solution

506. Which set of examples belongs to the same phylum?

A. Sepia and Laccifer

B. Corallium and Leucosolenia

C. Ancylostoma and Enterobius

D. Balanoglossus and Corvus

Answer: C

Watch Video Solution

507. The entire collection of plants/seeds having all the diverse allelles for all genes in a given crop in called:

A. Gene pool

B. Germplasm

C. Genome

D. Genotype

Answer: B

Watch Video Solution

508. An individual with Down's syndrome has_____ copies of 21^{st} chromosome.

A. 1

B. 4

C. 3

D. 2

Answer: C

Watch Video Solution

509. Radial symmetry is found in

A. Larva of Echinodermates

B. Most of sponges

C. Molluscs

D. None of the above

Answer: D

Watch Video Solution

510. Ciliated epithelia is found in

A. Ileum and bronchioles

B. Bronchioles and oesophagus

C. Fallopian tubes and bronchioles

D. Fallopian tubes and Ileum

Answer: C

Watch Video Solution

511. The connective tissue which connects bones to muscles are called

A. Tendons

B. Ligaments

C. Cartilage

D. Bones

Answer: A

Watch Video Solution

512. The proteins that reproduce within the living cells are termed as

A. Plasmid

B. Phages

C. Prions

D. Prophage

Answer: C

Watch Video Solution

513. Maximum volume of air that can be exhaled after forceful inhalation, is termed as

A. Total lung capacity

B. Vital capacity

C. Expiratory capacity

D. Functional Residual capacity.

Answer: B

Watch Video Solution

514. Development of sporophyte/embryo from gametophytic tissue without fusion of gametes is

A. Apospory

B. Apogamy

C. Apomixis

D. Aposporogamy

Answer: B

Watch Video Solution

515. Microtubules are cylindrical structures having a and ß tubulin proteins. They are the constituents of which one of the following groups?

A. Nucleolus, Nucleoid, Nuclear membrane

B. Centrosome, Spindle fibre, Flagella, Cillia

C. Mitochordria, Lysosome, Chloroplast, golgi apparatus

D. Chromosome, chromatid, chromatin

Answer: B

Watch Video Solution

516. Which of the following is the polymer of a nucleotide?

A. Protein

B. Lipid

C. DNA

D. Carbohydrate

Answer: C

Watch Video Solution

517. Which type of teeth is absent in a child's dentition?

A. Incisor

B. Canine

C. Premolar

D. Molar

Answer: C

Watch Video Solution

518. In root nodules of leguminous plants, the function of leg-hemoglobin during biological nitrogen fixation is

A. Convert N_2 to NH_3

B. Convert NH_3 Nitrite

C. Transport oxygen for nitrogenase activity

D. Protect nitrogenase from oxygen

Answer: D

Watch Video Solution

519. NPP (net primary productivity) is highest in

A. Tropical region

B. Polar region

C. High altitude

D. Deep ocean

Answer: A

Watch Video Solution

520. 'T' wave in an ECG represents

A. Atrial repolarization

B. Atrial depolarization

C. Ventricular repolarization

D. Ventricular depolarization

Answer: C

Watch Video Solution

521. Which hormone is a potent hyperglycemic hormone?

A. Insulin

B. Glucagon

C. Parathormone

D. Calcitonin

Answer: B

Watch Video Solution

522. Choose the correct option regarding retrovirus

A. An RNA virus that can synthesize DNA during infection.

B. A DNA virus that can synthesize RNA during infection.

C. A ssDNA virus

D. A dsRNA virus

Answer: A

Watch Video Solution

523. Which of the following changes does not occur during conversions of secondary follicle into tertiary follicle?

A. Development of antrum

B. Completion of meiosis - II

C. Differentiation of theca

D. Enlargement in size

Answer: B

Watch Video Solution

524. Which of the set of two hormones is having different sources?

A. GnRH and somatostatin

B. Prolactin and thyroid stimulating hormone

C. Oxytocin and vasopressin

D. Calcitonin and parathormone

Answer: D

Watch Video Solution

525. The pituitary gland is located in a bony cavity called _____P_____ and is attached to hypothalamus by a stalk known as_____Q_____ It is divided anatomically into an

adenohypophysis and a neurohypophysis. Adenohypophysis consists of two portions, _____R_____ and _____S_____ The _____R_____ region of pituitary, produces _____T_____, prolactin (PRL), thyroid stimulating hormone (TSH), adrenocorticotrophic hormone (ACTH) and gonadotropins (luteinizing hormone (LH) and _____U_____

A.

P	Q	R	S	T
Ethmoidal cavity	isthmus	pars tuberalis	pars intermedia	GHR

B.

P	Q	R	S
Ethmoidal cavity	infundibulum	pars tuberalis	pars intermedia

C.

P	Q	R	S	T	U
Sella tursica	isthmus	pars distalis	pars tuberalis	GHRH	follic

D.

P	Q	R	S	T	U
Sella tursica	infundibulum	pars distalis	pars intermedia	GH	fo

Answer: D

Watch Video Solution

526. If a genetic disease is transferred from a phenotypically normal but carrier female to only some of the male progeny, the disease is

A. Autosomal dominant

B. Autosomal recessive

C. Sex-linked dominant

D. Sex-linked recessive

Answer: D

Watch Video Solution

527. Who has drawn the same conclusions on evolution like Charles Darwin?

A. Alfred R. Wallace

B. B. Hugo de Vries

C. Hardy S. Weinberg

D. De Lamarck

Answer: A

Watch Video Solution

528. Root cambium is

A. Primary meristem

B. Secondary meristem

C. Intercalary meristem

D. Apical meristem

Answer: B

Watch Video Solution

529. (i) Anabaena lives symbiotically with Azolla.

(ii) Azotobacter is a free-living N_2 fixer in the soil.

Which of the statements given above is/are correct?

A. (i) Only

B. (ii) Only

C. Both (i) and (ii)

D. Neither (i) or (ii)

Answer: C

Watch Video Solution

530. Which one of the following categories of organisms do not evolve oxygen during Photosynthesis

A. Red algae

B. Photosynthetic bacteria

C. C_4 plants with Kranz anatomy

D. Blue green algae

Answer: B

Watch Video Solution

531. Effect on the genetic drift is minimized if

A. Population is large

B. Emigrating individuals are large in number

C. Emigration occurs frequently

D. Large segment of a population dies

Answer: A

Watch Video Solution

532. A lake with an inflow of domestic sewage rich in organic waste may result in

A. Drying of the lake very soon to algal bloom.

B. An increased production of fish due to lot of nutrients.

C. Death of fish due to lack of oxygen.

D. Increased population of aquatic food web organism.

Answer: C

Watch Video Solution

533. Cork cambium results in the formation of cork which becomes impermaeabble to water due ot the accumulation of

A. Resins

B. Suberin

C. Lignins

D. Tannins

Answer: B

Watch Video Solution

534. What will be the effect of accumulation of K^+ ions in guard cells

A. Water potential increases

B. Water potential decreases

C. Loss of turgidity

D. Solute potential increases

Answer: B

Watch Video Solution

535. Which of the following is set of homologous organs showing divergent evolution?

A. Thorns of bougainvillea and tendrils of cucurbita

B. Forelimbs of horse and wings of insects

C. Eyes of octopus and eyes of human

D. Flippers of whales and flippers of dolphins

Answer: A

Watch Video Solution

536. In myasthenia gravis, antibodies are formed against

A. Cholinergic receptors on motor neurons

B. Cholinergic receptors on motor end plate

C. Acetylcholine

D. Adrenergic receptors

Answer: B

Watch Video Solution

537. Somaclonal variation occurs during

A. Application of colchicine

B. Irradiation with gamma rays

C. Tissue culture

D. Hybridisation

Answer: C

Watch Video Solution

538. A character is controlled by 5 alleles. How many genotypes are possible for this character?

A. 15

B. 6

C. 12

D. 25

Answer: A

Watch Video Solution

539. The symptoms of allergy can be reduced by

A. Anti-histamine

B. Adrenalin

C. Steroids

D. All of these

Answer: D

Watch Video Solution

540. If the frequency of a recessive allele is 0.4. What will be the frequency of individuals with dominant phenotype in the population?

A. 0.68

B. 0.6

C. 0.84

D. 0.36

Answer: C

Watch Video Solution

541. In maize, pollination is

A. Anemophilous (wind)

B. Ornithophilous (birds)

C. Malacophilous (snail)

D. Entomophilous (ants)

Answer: A

Watch Video Solution

542. Which of the following contraceptive method is used can also help in preventing STD?

A. Coitus withdrawal

B. Diaphragms

C. Condoms

D. Oral contraceptive

Answer: C

Watch Video Solution

543. During transcription the template strand is the one with polarity

A. Always 3' to 5' as the template strand

B. Always 5' to 3' as the template strand

C. Any of the strandard can brcome template strand

D. Alternatively both strand work as template strand

Answer: A

Watch Video Solution

544. Which one of following is wrongly matched?

A. fungi-Chitin

B. Plasma membrane-Phospholipid

C. Bacteria-Lipopolysaccharide

D. Endodermis-Suberin

Answer: C

Watch Video Solution

545. A protoplast is a cell

A. Without nucleus

B. Undergoing division

C. Without cell wall

D. Without Golgi body

Answer: C

Watch Video Solution

546. Which of the following statement is correct about competitive inhibitors?

A. The inhibitor does not resembles the substrate

B. The inhibitor competes with the substrate for the allosteric sites.

C. Inhibition of succinic hydrogenase by malonate which closely resembles the substrate succinate in structure is an example of it

D. this mechanism is used in the control of bacteria pathogens

Answer: D

Watch Video Solution

547. The deficiencies of micronutrients not only affects growth of plants, but also vital functions such as photosynthetic and mitochondrial electron flow. Among the list given below, which group of three elements shall affect the most, both photosynthetic and mitochondrial electron transport ?

A. Co, Ni, Mo

B. Ca, K, Na

C. Mn, Co, Ca

D. Cu, Mn, Fe

Answer: D

Watch Video Solution

548. A thin, mascular wall (oval depression) in the heart is seen

A. Inter-atrial septum

B. Inter-ventricular septum

C. Right auriculo-ventricular septum

D. Left auriculo-ventricular septum

Answer: A

Watch Video Solution

549. Coralloid roots of Cycas are useful in

A. N_2-fication

B. Absorption

C. Transpiration

D. Fixation

Answer: A

Watch Video Solution

550. To be evolution of successful, a mutation must occur in

A. Germplasm DNA

B. Somatoplasm DNA

C. RNA

D. Cytoplasm

Answer: A

Watch Video Solution

551. Select the incorrectly matched pair from the following :

(i) Sericulture	Silkmoth
(ii) Aquaculture	Fish
(iii) Apiculture	Honey bee
(iv) Pisciculture	Bombyx more

A. (i)

B. (ii)

C. (iii)

D. (iv)

Answer: D

Watch Video Solution

552. The cause of special flavour in onion and garlic is due to the presence of

Or

Yellowing of tea leaf takes place by the deficiency of

A. Chlorine

B. Hydrogen

C. Oxygen

D. Sulphur

Answer: D

Watch Video Solution

553. In meiosis, division is

A. I reductional and II equational

B. I equational and II reductional

C. Both reductional

D. Both equational

Answer: A

Watch Video Solution

554. During the transmission of nerve impluse through a nerve fibre, the inner menbrane charge of the neurilemma will be

A. First positive, then negative and continue to be positive

B. First negative, then positive and continue to be positive

C. First positive, then negative and again back to positive

D. First negative, then positive and again back to negative.

Answer: D

Watch Video Solution

555. The product formed by malic dehydrogenase is

A. Malic acid

B. Fumaric acid

C. Oxaloacetic acid

D. Succinic acid

Answer: C

Watch Video Solution

556. In India, forests constitute about

A. 19.4% of the land area

B. 33.7% of the land area

C. 22% of the land area

D. 67% of the land area

Answer: C

Watch Video Solution

557. Binomial nomenclature means

A. One name given by two scientists

B. One scientific name consisting of a generic and specific epithet

C. Two names, one latinised, other of a person

D. Two names of same plant

Answer: B

Watch Video Solution

558. Plants growing in shady region are called

A. Sciophytes

B. Xerophytes

C. Epiphytes

D. Heliophytes

Answer: A

Watch Video Solution

559. Lippes loop is an example of

A. Vaults

B. Cu releasing IUDs

C. Non-medicated IUDs

D. Hormonal IUDs

Answer: C

Watch Video Solution

560. Most of the unicellular organisms are kept under

A. Kingdom monera and kingdom protista

B. Kingdom monera and kingdom plantae

C. Kingdom protista and kingdom plantae

D. Kingdom protista and kingdom fungi

Answer: A

Watch Video Solution

561. Sella turcica is a

A. Covering of kidney

B. Covering of testis

C. Depression in brain

D. Depression in skull which lodges the pituitary body

Answer: D

Watch Video Solution

562. A large persistent cotyledon in the embryo of the wheat grain is called

A. Coleorhiza

B. Scutellum

C. Coleoptile

D. Epiblast

Answer: B

Watch Video Solution

563. Which of the following is heterosporous

A. Dryopteris

B. Salvinia

C. Adiantum

D. Equisetum

Answer: B

Watch Video Solution

564. Preserving germplasm in frozen state is

A. Cryopreservation

B. Cold storange

C. In situ preservation

D. Vernalisation

Answer: A

Watch Video Solution

565. First dicarboxylic acid formed during TCA cycle is

A. Citric acid

B. Succinyl CoA

C. $\alpha -$ ketoglutaric acid

D. Oxaloacetic acid

Answer: C

Watch Video Solution

566. Widal test is used for susceptibility of

A. Malaria

B. Cholera

C. Tellow fever

D. Typhoid

Answer: D

Watch Video Solution

567. Floar features are chiefly used in angiosperms identification because

A. Flowes are of same colours

B. Flowers can be safely pressed

C. Reproductive parts are more stable and conservative than vegetative parts

D. Flowers are freely available

Answer: C

Watch Video Solution

568. Which of the following compound is used in visualisation of DNA fragments in gel electrophoresis?

A. Hexachlorobenzene

B. Silver bromode

C. Ethyl chloride

D. Ethidium bromide

Answer: D

Watch Video Solution

569. The type of cell junctions that helps in preventing leakage of substances is calles

A. Adhering junctions

B. Gap junctions

C. Tight junctions

D. Plasmodesmata

Answer: C

Watch Video Solution

570. Bacillus thuringiensis (Bt) strains have been used for designing novel

A. Bio-metallurgical technique

B. Bio-mineralisation processes

C. Bio-insecticidal plants

D. Bio-fertilizers

Answer: C

Watch Video Solution

571. Which of the following is absent in polluted water?

A. Hydrilla

B. Water hyacinth

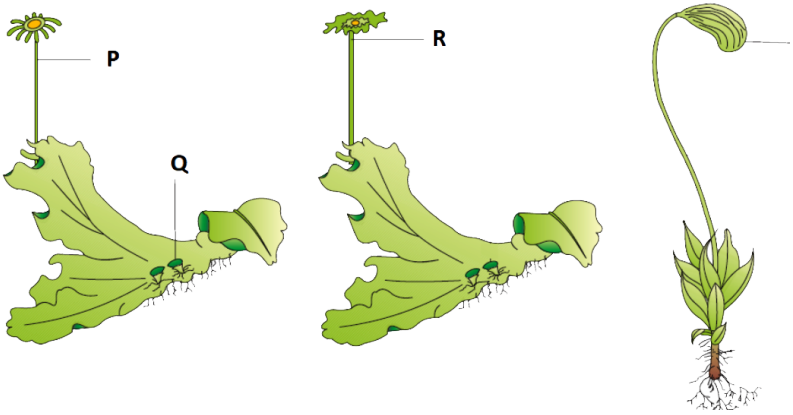
C. Larva of stone fly

D. Blue green algae

Answer: A

Watch Video Solution

572. Observe the following figures and identify the structures of parts labelled as P, Q, R and S.



A.

P	Q	R	S
Archegoniophore	Gemma cup	Antheridiophore	Seta

B.

P	Q	R	S
Antheridiophore	Rhizoids	Archegoniophore	Capsule

C.

P	Q	R	S
Archegoniophore	Setu	Antheridiophore	Leaves

D.

P	Q	R	S
Archegoniophore	Gemma cup	Antheridiophore	Capsule

Answer: D

Watch Video Solution

573. in dicot stem, xylem is

A. Exarch

B. Mesarch

C. Centarch

D. Endarch

Answer: D

Watch Video Solution

574. According to Central Pollution Control board (CPCB). Which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health?

A. 1.5 or less

B. 1.0 or less

C. 5.2-2.5

D. 2.5 or less

Answer: D

Watch Video Solution

575. The microbial source for citric acid is

A. Aspergillus niger

B. Acetobacter acetic

C. Clostridium butylicum

D. Lactobacillus acidophilus

Answer: A

Watch Video Solution

576. Which disease is characterized by inflammation of joits due to the accumulation of uric acid crystals?

A. Arthritis

B. Gout

C. Tetany

D. Muscular dystrophy

Answer: B

Watch Video Solution

577. The portion of the embryonal axis above the level of cotyledons is

A. Hypocotyl

B. Root cap

C. Root tip

D. Epicotyl

Answer: D

Watch Video Solution

578. Which one of the following pairs of hormones are the examples of those that can easily pass through the cell membrane of the target cell and bind to a receptor inside it (mostly in the nucleus)

A. Insulin, glucagon

B. Thyroxin, insulin

C. Somatostain, oxytocin

D. Cortisol, testosterone

Answer: D

Watch Video Solution

579. Fibroblasts , macrophages and mast cells are present in

A. Cartilage tissue

B. Adipose tissue

C. Areolar tissue

D. Glandular epithelium

Answer: C

Watch Video Solution

580. Complete the equation. Nucleic acids--------- Nucleotides----------

A. Monoglycerides

B. Diglycerides

C. Disaccharides

D. Nucleosides

Answer: D

Watch Video Solution

581. Choose the correct statement.

A. The C_4- plants do not have RuBisCO.

B. Carboxylation of RuBP leads to the formation of PGA and phosphoglycolate

C. Carboxylation of phosphoenolpyruvate results in the formation of oxalic and in $C_4 -$ plants.

D. Decarboxylation of $C_4 -$ acids occur in the mesophyll cells.

Answer: C

Watch Video Solution

582. Which one of the following pairs of structures are correclty matched with their description?

A. Tibia and fibula - Both form parts of acetabulum cavity

B. Cartilage and cornea - Oxygen is required for respiratory need and is supplied by the blood vessels

C. Shoulder joint and elbow joint - Synovial type of joints

D. Premolars and molars - 20 in all and 3 rooted

Answer: C

Watch Video Solution

583. Fertilization is depicted by the condition :

A. Haploid to diploid

B. Diploid to triploid

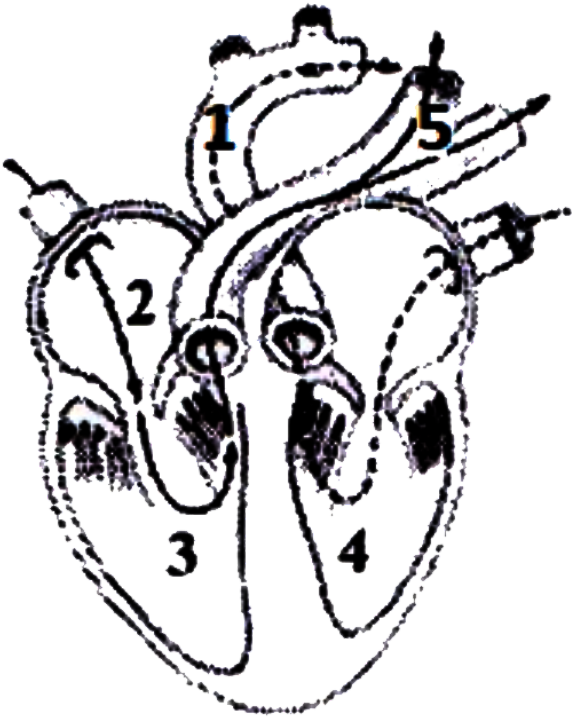
C. Diploid to haploid

D. Diploid to hexaploid

Answer: A

Watch Video Solution

584. In the given figure of the heart, which of the marked structures (1, 2, 3, 4, and 5) carry oxygenated blood?



A. 1, 2, 3 and 4

B. 1 and 5

C. 1 and 4

D. 3 and 5

Answer: C

Watch Video Solution

585. The vector also have one unique recognition site to enable foreign DNA to be inserted into the vector during the generation of an rDNA molecule. Most of the commonly used vectors contains unique recognition sites region of DNA which is referred to as a polylinker or multiple cloning site (MCS). An MCS provides:

A. Ability to separate DNA fragments

B. Flexibility in the choice of restriction enzyme

C. Flexibility in selectable marker

D. Ability of DNA to mutate itself

Answer: B

Watch Video Solution

586. Find out the wrong pair with respect to the number of chromosomes in meiocytes.

A. Fruit fly - 8

B. Apple - 36

C. Rice - 24

D. Housefly - 12

Answer: B

Watch Video Solution

587. The permissible use of the technique amniocentesis is for :

A. Detecting sex of the unborn foetus

B. Artificial insemination

C. Transfer of embryo into the uterus of a surrogate mother

D. Detecting any genetic abnormality.

Answer: D

Watch Video Solution

588. A taxon is

A. A Group of related famillies

B. A group of related species

C. A type of living organisms

D. A taxonomic group of any ranking

Answer: D

Watch Video Solution

589. If a wavelength of above 680 nm is available for excitement, the product of the reaction will be

A. O_2

B. ATP and $NADPH_2$

C. ATP

D. $NADPH_2$

Answer: C

Watch Video Solution

590. Oral contraceptives ae prescribed in females to check

A. Ovulation

B. Fertilization

C. Implantation

D. Entry of sperms in vagina

Answer: A

Watch Video Solution

591. The cloaca in frog is a common chamber for the urinary tract, reproductive tract and

A. Alimentary canal

B. Portal system

C. Hepatic portal vessels

D. Notochord

Answer: A

Watch Video Solution

592. At which concentration of CO_2, C_3 plants shows saturation

A. $450\mu lL^{-1}$

B. $360\mu lL^{-1}$

C. $540\mu lL^{-1}$

D. $630\mu lL^{-1}$

Answer: A

Watch Video Solution

593. The rejection of organ transplanting in humans is prevented by using:

A. Aspirin

B. Cyclosporin

C. Calcitonin

D. Thrombin

Answer: B

Watch Video Solution

594. Consider the following

i. For a solution at atmospheric pressure $\Psi_w = \Psi_s$

ii. Ψ_w (water potential) of a cell is affected by solute potential only

iii. Ψ_p (pressure potential) is usually positive in xylem during the day

which of the statements given above is/are correct?

A. ii & iii

B. I only

C. ii only

D. I, ii and iii

Answer: B

Watch Video Solution

595. How many different types of gametes can be formed by F_1 progeny resulting from the following cross?

AABBCC $\times$ aabbcc

A. 3

B. 8

C. 27

D. 64

Answer: B

Watch Video Solution

596. Which one of the following pairs in not correctly matched ?

A. Plasmid - Small piece of extrachromosomal DNA in bacertia

B. Interferon - An enzyme that interferes with DNA replication

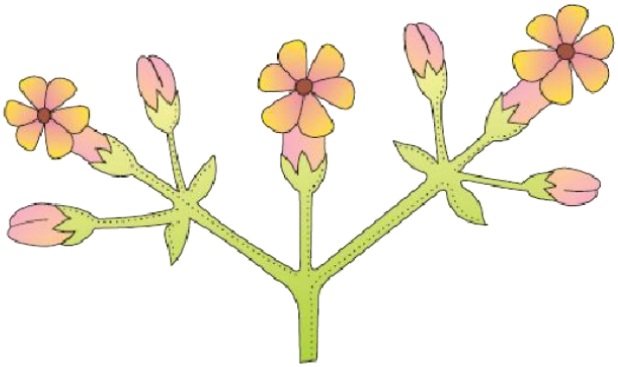
C. Cosmid - A vector for carrying large DNA fragments into host cells

D. Myeloma antibodies - Producing tumor cells

Answer: B

Watch Video Solution

597. Identify the given diagram .



A. Racemose infloresence

B. Cymose infloresence

C. Verticilastar inflorescence

D. Hypenthodium

Answer: B

Watch Video Solution

598. Blastula lacks

A. Blastomeres

B. Blastoderm

C. Blastocoel

D. Blastopore

Answer: D

Watch Video Solution

599. The cranial capacity of Homo erectus was

A. 900 c.c

B. 1350 c.c

C. 1075 c.c

D. 1450 c.c

Answer: A

Watch Video Solution

600. The ageing of leaves is called

A. Necrosis

B. Senescence

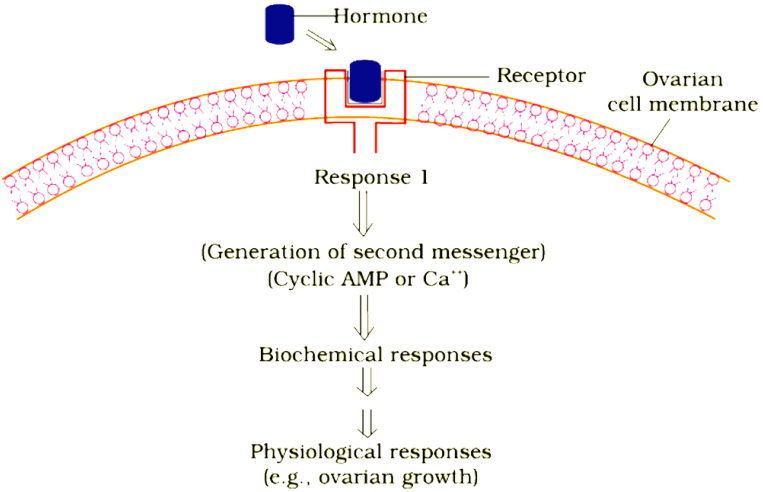
C. Photoperiodism

D. Vernalization

Answer: B

Watch Video Solution

601. Which of the following hormone represent the mechanism of hormone action shown in the given diagram?



A. Estrogen

B. Progesterone

C. FSH

D. Cortisol

Answer: C

Watch Video Solution

602. Which of the following statement is correct about mycorrhiza?

A. It is a symbiotic association between fungi and the root of higher plants.

B. Pinus seeds cannot germinate in their absence.

C. Plants having such associations show resistance to salinity.

D. More than one option is correct

Answer: D

Watch Video Solution

603. The peripheral nervous system is divided into two divisions called A and B. A relays impulses from the CNS to skeletal nuscles while the B transmits impulses from the CNS to the involuntary organs and smooth muscles of the body. B is further classified into C and D neural system.

A.

A	B	C	I
Autonomic neural system	Somatic neural system	Sympathetic	I

B.

A	B	C
Sympathetic	Parasympatheticneural	Autonomic neural system

C.

A	B	C	I
Somatic neural system	Autonomic neural system	Sympathetic	I

D.

A	B	C	I
Somatic neural system	Sympathetic	Autonomic neural system	I

Answer: C

Watch Video Solution

604. The trigger for activation of toxin of Bacillus thuringiensis is:

A. Acidic pH of gut

B. Alkaline pH of gut

C. High temperature

D. Mechanical action in the insect gut

Answer: B

Watch Video Solution

605. The pollen grains lose their viability in 30 minutes in

A. Triticum aestivum

B. Allium cepa

C. Atropa belladonna

D. Solanum nigrum

Answer: A

Watch Video Solution

606. Which one of the following statements is correct about Phycomycetes?

A. The mycelium is aseptate and coenocytic.

B. A zygospore is formed by fusion of two gametes.

C. Rhizopus and Albugo are examples of them.

D. All of these

Answer: D

Watch Video Solution

607. The nuclear membrane disappears in

A. Metaphase

B. Early prophase

C. Late prophase

D. Anaphase

Answer: C

Watch Video Solution

608. Which one is an important constituent of the renin - angiotensinogen - aldosterone system?

A. Juxtaglomercular apparatus

B. Bowman's capsule

C. Loop of Henle

D. Glomerulus

Answer: A

Watch Video Solution

609. The mechanism universally accepted to describe the translocation of sugars from source to sink is called

A. Translocation of food due to TP gradient and imbibitaion force

B. Translocation of food due to turgor pressure (TP) gradient

C. Translocation fo food due to imbibition force

D. None of the above

Answer: B

Watch Video Solution

610. Select the type of enzyme involved in the following reaction

$S - G + S' \rightarrow S + S' - G$

A. Lyases

B. Transferases

C. Isomerases

D. Oxidoreductases

Answer: B

Watch Video Solution

611. Hypersensitivity towards any foregin material is due to antibody

A. IgA

B. IgG

C. IgM

D. IgE

Answer: D

Watch Video Solution

612. match the items in column - I with column - II and choose the correct option

Column – I		Column – II	
A.	Tidal volume	1.	2500 to 3000 *ml* of air
B.	Inspiratory reserve volume	2.	1000 *ml* of air
C.	Expiratory reserve volume	3.	500 *ml* of air
D.	Residual volume	4.	3400 to 4800 *ml* of air
E.	Vital capacity	5.	1200 *ml* of air

A. A - III, B - IV, C - II, D - I, E - V

B. A - III, B - I, C - II, D - V, E - IV

C. A - III, B - I, C - IV, D - V, E - IV

D. A - IV, B - III, C - II, D - I, E - V

Answer: B

Watch Video Solution

613. A few statements with regard to sexual reprodction are given below.

(i) Sexual reproduction does not always require two individuals.

(ii) Sexual reproduction generally involves gametic fusion.

(iii) Meiosis never occurs during sexual reproduction.

(iv) External fertilisation is a rule during sexual reproduction.

Choose the correct statements from the option below.

A. I and iii

B. I and ii

C. ii and iii

D. I and iv

Answer: B

Watch Video Solution

614. The central part of the proximal region of the centriole is proteinaceous and called the (A)___, which is connected with tubules of the peripheral triplet by (B)____.

A. A - Axoneme , B - Linear spokes

B. A - Axoneme p, B - Linear hub

C. A - Hub , B - Radial spokes

D. A - Hub , B - Radial axoneme

Answer: C

Watch Video Solution

615. Gibberellin was first extracted from

A. Gibberella fujifuroi

B. Gracilaria verrucosa

C. Gardnerella vaginilis

D. Geotrichum penicillatum

Answer: A

Watch Video Solution

616. In the renal tubules the permeabillity of the distal convoluted tubule and collecting duct to water is controlled by

A. Vasopression (ADH)

B. Aldosterone

C. Growth hormone

D. Renin

Answer: A

Watch Video Solution

617. Tobacco plants resistant to a nematode have been developed by the introduction of DNA that produced (in the host cells):

A. Sense RNA

B. Anti - sense RNA

C. A toxic protein

D. Both sense and anti - sense RNA

Answer: D

Watch Video Solution

618. Attractive force of cell walls of xylem for water molecules is termed as

A. Adhesion

B. Cohesion

C. Osmosis

D. Plasmolysis

Answer: A

Watch Video Solution

619. ABO blood group system is due to

A. Multifactor inheritanec

B. Incomplete dominance

C. Multiple allelism

D. Epistasis

Answer: C

Watch Video Solution

620. The meristem that occurs in the mature region of roots ad shoots of many plants particularly those that produce woody axis and appear later than primary meristem is called.

A. Primary meristem

B. Secondary meristem

C. Intercalary meristem

D. Both (B) and (C)

Answer: B

Watch Video Solution

621. If a certain group of cells utilises the amino aciid glycine exclusively for synthesis, and if a growing culture of these cells is fed radioactive glycine, radioactivity will be found first in the

A. Ribosomes

B. tRNA

C. mRNA

D. Mitochondria

Answer: B

Watch Video Solution

622. Ecological succession is

A. Directional but unpredictable.

B. Directional and predictables.

C. Gradual and predictable.

D. Directionless and unpredictable.

Answer: C

Watch Video Solution

623. Gemmae are vegetative repreoductive structures found in

A. Angiosperms

B. Bryophytes

C. Algae

D. Gymnosperms

Answer: B

Watch Video Solution

624. Read the following statements. Which one of the following is incorrect?

A. GAATTC is the recognition site of EcoRl.

B. Agrobacterium tumefaciens is used for cloning genes in plants

C. In the restriction enzyme Ecori, "co" stands for coenzyme.

D. For transformation, micro - particles coated with DNA to be bombarded with gene gun are made up of gold of tungsten.

Answer: C

Watch Video Solution

625. Which animal and phylum is represented in the given figure?

A. Ascidia - Hemichordata

B. Ascidia - Chordata

C. Ascidia - Tunicata

D. Ascidia - Urochordata

Answer: B

Watch Video Solution

626. Which of the following variety is resistant against hill bunt ?

A. Himgiri

B. Prabhani kranti

C. Pusa Komal

D. Pusa Gaurav

Answer: A

Watch Video Solution

627. At puberty, only _____ primary follicles remain are left in each ovary.

A. 200 - 300 million

B. 60000 - 80000

C. 1 million

D. 6000 - 8000

Answer: B

Watch Video Solution

628. Water potential of actively absorbing cells is

A. Always $+ve$

B. Always $-ve$

C. Always 0

D. Always > 1

Answer: B

Watch Video Solution

629. Energy storage at consumer level is called

A. Gross primary productivity

B. Secondary productivity

C. Net primary productivity

D. Net productivity

Answer: B

Watch Video Solution

630. Select the incorrectly matched pair.

A. Fig and fig wasp - Mutualism

B. Cuscuta and hedge plant - Commensalism

C. Cuckoo and crow - Brood parastism

D. Goats and Abingdon tortoise on Galapagos Islands - Competition

Answer: B

Watch Video Solution

631. The term 'biodiversity' was given by

A. Alexander von Humboldt

B. Edward Wilson

C. David Tilman

D. Paul Ehrlich

Answer: B

Watch Video Solution

632. Jellies and foams are used with which of the following contraceptive method to enhance its efficiency

A. vaults

B. vaseotomy

C. Coitus interrupts

D. IUDs

Answer: A

Watch Video Solution

633. Which of the following is not obtained by the process of distillation?

A. Wine

B. Whisky

C. Brandy

D. Rum

Answer: A

Watch Video Solution

634. Translocation of food in plants was demonstrated by

A. Girdling experiment

B. Mass flow hypothesis

C. Root pressure hypothesis

D. Cohesion-tension theory

Answer: A

Watch Video Solution

635. Study the following columns and choose the correct option.

	COLUMN I		COLUMN II
A	Population	1	Part of the earth consisting of all the ecosystems of the world
B	Community	2	Assemblage of all the individuals belonging to different species occurring in an area
C	Ecosystem	3	Group of similar individuals belonging to the same species found in an area
D	Ecosphere	4	Interaction between the living organisms and their physical environment components
		5	Classification of organisms based on the type of environment.

A. A B C D

1 4 5 3

B. A B C D

5 2 3 4

C. A B C D

2 3 5 1

D. A B C D

3 2 4 1

Answer: D

Watch Video Solution

636. Oestrus cycle is seen in

A. Dogs

B. Apes

C. Tiger

D. More than one option is correct

Answer: D

Watch Video Solution

637. Hogo de Vries gave his mutation theory on organic evolution while working on :

A. Sweet Pea

B. Fruit fly

C. Evening primrose

D. Garden pea

Answer: C

Watch Video Solution

638. One strand of the given segment of DNA codes for mRNA having the sequence AUC, GCG, UCA needed for the synthesis of proteins. Tne strand by which DNA molecule will be responsible for the above mRNA sequence is

A. ATC GCC ATU
| | |
TAG CGG TAG

B. AGA GCG GAT
| | |
TCT CGC CTA

C. TGA CGC TAG
| | |
ACT GCG ATC

D. TAG CGC AGT
| | |
ATC GCG TCA

Answer: D

Watch Video Solution

639. Only the green part of the plants could release oxygen in the presence of sunlight during photosynthesis was explained by

A. Jan Ingenhousz

B. Robert Mayer

C. Malvin Calvin

D. Blackman

Answer: A

Watch Video Solution

640. Which of the following is an avascular tissue?

A. Connective

B. Epithelial

C. Muscular

D. Nervous

Answer: B

Watch Video Solution

641. Chief pollinators of agricultural crops are

A. Butterflies

B. Bees

C. Moths

D. beetles

Answer: B

Watch Video Solution

642. Biofertilizers include

A. Nitrogen fixing bacteria

B. Nitrogen fixing cyanobacteria

C. Both bacteria and cyanobacteria

D. Bacteria, cyanobacteria and mycorrhizal fungi

Answer: D

Watch Video Solution

643. The first product of photosynthesis is sugar and it is converted

A. Into starch in all plants

B. Into proteins

C. Into vitamins

D. Rarely into anything else

Answer: A

Watch Video Solution

644. The virus that created a scare in the country and drastically affected egg and chicken consumption is

A. HPV

B. Hepatitis virus

C. Bird flu virus

D. Herpes virus

Answer: C

Watch Video Solution

645. Oxidative phosphorylation involves simultaneous oxidation and phosphorylation to form

A. Pyruvate

B. NADP

C. DPN

D. ATP

Answer: D

Watch Video Solution

646. A large proportion of oxygen is left unused the human blood even after its uptake by the body tissue. This O_2

A. Helps in releasing more O_2 to the epithelial tissues

B. It is enough to keep oxyhaemoglobin saturation at 96%

C. Raise the PCO_2 of blood to 75 mm of Hg

D. Acts as a reserve during muscular exercise

Answer: D

Watch Video Solution

647. In plants,potential in the water column in the xylem plays a major role in water transport up a stem is

A. Positive pressure

B. Negative pressure

C. Positive pressure

D. Negative water

Answer: B

Watch Video Solution

648. Composition of semen is

A. Sperms

B. Secretions of the seminal vesicles

C. Secretions of prostate gland and bulbo-urethral glands

D. all the above

Answer: D

Watch Video Solution

649. What is the right sequence of bones in the ear ossicles of a mammal starting from the tympanum inwards?

A. Malleus, Incus, Stapes

B. Malleus, Stapes, Incus

C. Incus, Malleus, Stapes

D. Stapes , Incus, Malleus

Answer: A

Watch Video Solution

650. Identify the correct sequence of steps involved in the process of decomposition.

(a) Humification

(b) Catalbolism

(c) Fragmentation of detritus

(d) Leaching

(e) Mineralization

A. b-d-c-e-a

B. c-b-e-a-d

C. c-d-b-a-e

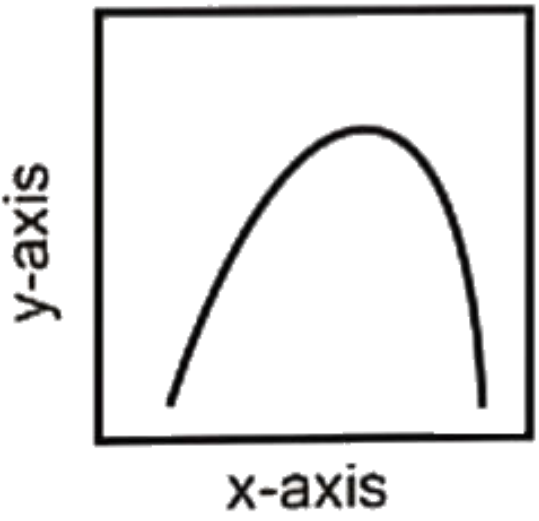
D. b-d-e-c-a

Answer: C

Watch Video Solution

651. The curve given below shows enzymatic activity with relation to three conditions (pH, temperature and substrate concentration). What does

the two axis (x and y) represent ?



A. X-axis: Enzymatic activity, Y-axis: pH

B. X-axis: Temperature, Y-axis: Enzyme activity

C. X-axis: Substrate concentration, Y-axis: Enzymatic activity

D. X-axis: Enzymatic activity, Y-axis: Temperature

Answer: B

Watch Video Solution

652. Two cells A and B are contiguous. Cell A has osmotic pressure 10 atm, turgor pressure-7 atm and diffusion pressure deficit 3 atm. Cell B has osmotic pressure 8 atm, turgor pressure 3 atm and diffusion pressure deficit 5 atm. The result will be

A. No movement of water

B. Equilibrium between the two

C. Movement of water from cell A to B

D. Movement of water from cell B to A

Answer: C

Watch Video Solution

653. Human population growth in India.

A. Tends to follow a sigmoid curve as in case of many other animal species

B. Tends to reach a zero population growth as in case of some animal species

C. Can be reduced by permitting natural calamities and enforcing birth control measures

D. Can be regulated by following the national programme of family planning

Answer: D

Watch Video Solution

654. Mule is a cross breed between:

A. Male donkey and female horse

B. Female donkey and male horse

C. Male mule and female horse

D. None of these

Answer: A

Watch Video Solution

655. In human foetus , the heart begins to beat at developmental age of :

A. $4^{th} - 5(th)$ week

B. $1^{st} - 2^{nd}$ week

C. $6^{th} - 7^{th}$ week

D. $8^{th} - 9(th)$ week

Answer: A

Watch Video Solution

656. Which of the following in sewage treatment removes suspended solids?

A. Tertiary treatment

B. Secondary treatment

C. Primary treatment

D. Sludge treatment

Answer: C

Watch Video Solution

657. Select the incorrect statement w.r.t. taxonomic aids.

A. Key is based on set of contrasting characters known as couplet

B. There is no universally accepted system for the arrangement of herbarium sheets

C. Flora contains actual account of habitat and distribution of plants of a given area

D. Monographs contain information on any one taxon

Answer: B

Watch Video Solution

658. Asexual reproduction mainly takes place in

A. Higher animals

B. lower animals

C. Plants

D. all the above

Answer: B

Watch Video Solution

659. Geitonogamy does not occur in

A. Dioecious plant

B. Monoecious plant

C. Both of the above

D. It occurs in all the plants

Answer: A

Watch Video Solution

660. On humans, the undigested, unabsorbed substances called faeces are temporarily stored in

A. Rectum

B. Colon

C. Caecum

D. Cloaca

Answer: A

Watch Video Solution

661. Consider the following statements regarding mesosomes :

a. It may be present in the form of vesicles, tubules and lamellae.

b. It helps on cell wall secretion, cell respiration, DNA replication and cell division

c. It increases the surface area of the cell wall and enzymatic content.

d. It contains oxidative enzymes.

which of the above statements are true ?

A. a,b,c & d

B. a,b & d

C. a,b & c

D. b, c & d

Answer: C

Watch Video Solution

662. The electrons, that are removed from photosystem-II and photosystem-I during z-scheme, must be replaced. This is achieved by electrons released

A. By photosystem-I $NADP^+$

B. By splitting of water and NADPH

C. By ATP and photosystem-II

D. By splitting of water and photosystem-II

Answer: D

Watch Video Solution

663. Rennin acts on

A. Digestion of milk protein in basic pH

B. Proteins in stomach

C. Fat in intestine

D. Digestion of milk protein in acidic pH

Answer: D

Watch Video Solution

664. The immunity associated with memory is called

A. Natural immunity

B. Acquired immunity

C. Innate immunity

D. Passive immunity

Answer: B

Watch Video Solution

665. On an ECG, the depolarization of atria is indicated by

A. P-Wave

B. Q-wave

C. R-wave

D. S-wave

Answer: A

Watch Video Solution

666. Blood analysis of a patient reveals an unusually high quantity of carboxyhaemoglobin content. Which of the following conclusions is most likely to be correct ?

A. Carbon disulphide

B. Chloroform

C. Carbon dioxide

D. Carbon monoxide

Answer: D

Watch Video Solution

667. Chlorosis is caused due to the deficiency of

A. Magnesium

B. Calcium

C. Boron

D. Copper

Answer: A

Watch Video Solution

668. Exponential growth in human population is represented in

A. Lag phase

B. Log phase

C. Plateau stage

D. First stage

Answer: B

Watch Video Solution

669. The layer of cells forming tissue that appears to be multilayered but actually some of the cells extend from the basement membrane to the surface is

A. Simple columnar epithelium

B. Pseudostratified epithelium

C. Stratified columnar epithelium

D. Stratified cuboidal epithelium

Answer: B

Watch Video Solution

670. Genomic DNA library means

A. A collection of literature about DNA

B. A collection of organisms for extracting DNA

C. A collection of total genomic DNA of a single organism

D. A collection of gene vectors

Answer: C

Watch Video Solution

671. Which bacteria is utilized in Gober gas plant

A. Methanogens

B. Nitrifying bacteria

C. Ammonifyging bacteria

D. Denitrifying bacteria

Answer: A

Watch Video Solution

672. Endothecium and tapetum in anther are derived from

A. Primary sporogenous layer

B. Primary parietal layer

C. Both primary sporogenous layer and Primary parietal layer

D. None of the above

Answer: B

Watch Video Solution

673. In eukaryotes, the anticodon of tRNA that pairs with the start codon of mRNA during translation is _____

A. UAA

B. UCA

C. UAC

D. UUU

Answer: C

Watch Video Solution

674. On a single process of the Krebs Cycle, decarboxylation takes place in ___ steps.

A. Five

B. Four

C. Three

D. Two

Answer: D

Watch Video Solution

675. In nitrogen cycle, which of the following plays an important role ?

A. Rhizopus

B. Nitrobacter

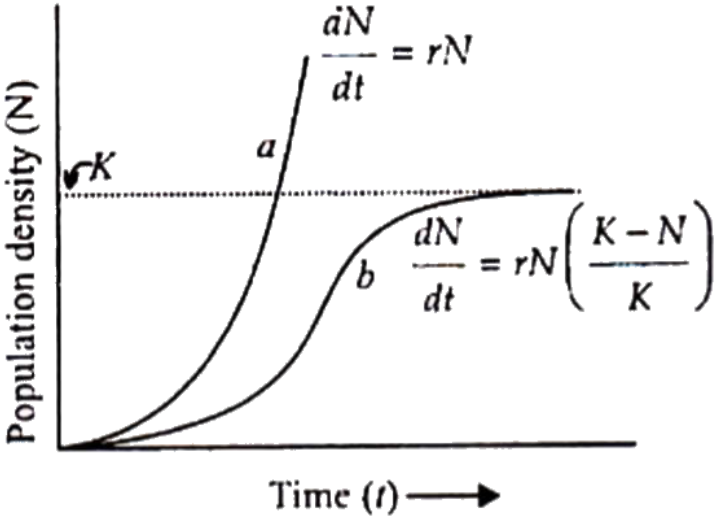
C. Mucor

D. Claviceps

Answer: B

Watch Video Solution

676. The graph shows two types of the population growth curve, 'a' - Exponential and 'b' - Logistic. Which of the following graph models is considered to be the more realistic one?



A. Logistic curve

B. Exponential curve

C. Both Exponential and Logistic curve

D. None of the above

Answer: A

Watch Video Solution

677. The technique called gamete intrafallopian transfer (GIFT) is recommended for those females

A. Who cannot produce an ovum

B. Who cannot retain the foetus inside uterus.

C. Whose cervical canal is too narrow to allow passage for the sperms

D. Who cannot providee suitable environment for fertilisation.

Answer: A

Watch Video Solution

678. How many organism in the list given below are autotrophs Lactobacillus, Nostoc, Chara, Nitrosomonas, Nitrobacter, Streptomyces, Sacharomyces, Trypanosoma, Porphyra Wolfia

A. Four

B. Five

C. Six

D. Three

Answer: C

Watch Video Solution

679. Formation of concentrated (hyperosmotic) urine in vertebrates generally depends on

A. Length of the proximal convoluted tubule

B. Length of Henle's loop

C. Area of Bowman's capsule epithelium

D. Capillary network forming of earthworm

Answer: B

Watch Video Solution

680. Which one of the following statements is CORRECT?

A. Nicotine causes hallucinations

B. Heroin is a diacetylmorphine

C. Hashish has stimulant property

D. Cocaine is opioid drug

Answer: B

Watch Video Solution

681. The continuous upward flow of water stream in tall trees is maintained due to _____

A. Guttation and transpiration

B. Transpiration pull only

C. Cohesive force between water molecules only

D. Cohesive force between water molecules and transpiration pull

Answer: D

Watch Video Solution

682. Uricotelism is found in

A. Mammals and birds

B. Fishes and fresh water protozoans

C. Birds, reptiles and insects

D. Frogs and toads

Answer: C

Watch Video Solution

683. Match the following based on their life spans.

	Column-I		Column- II
(1)	Elephant	(a)	2 to 3 Month
(2)	Fruit fly	(b)	4 months
(3)	Rice plant	(c)	less than one month
(4)	Butterfly	(d)	60-90 yrs

A. 1 2 3 4

a b c d

B. 1 2 3 4

d a c b

C. 1 2 3 4

d a b c

D. 1 2 3 4

d c a b

Answer: C

Watch Video Solution

684. The specific-property attributed to gibberellins is

A. Shortening of genetically tall plants

B. Elongation of genetically dwarf plant

C. Promotion of rooting

D. Yellowing of young leaves.

Answer: B

Watch Video Solution

685. Which of the following vectors has been used for introducing nematode-specific genes in infected tobacco plants?

A. Meloidogyne incognita

B. Bacillus thuringiensis

C. Disarmed retrovirus

D. Ti plasmid of Agrobacterium

Answer: D

Watch Video Solution

686. Schwann cells are present in which part of a myelinated neuron?

A. Dendrites

B. Axon hillock

C. Axon

D. Soma/body

Answer: C

Watch Video Solution

687. An example for opposite phyllotaxy is

A. Alstonia and Calotropis

B. Guava and Calotropis

C. mustar and sunflower

D. China rose and guava

Answer: B

Watch Video Solution

688. Identify the correctly matched pair.

A. Montreal protocol-Ozone depletion

B. Kyoto protocol-Ozone depletion

C. Ramsar convention - Ground water pollution

D. Basal convention - Biodiversity conservation

Answer: A

Watch Video Solution

689. Match the microbes to their respective products from the given columns.

	Column I		Column II
a.	*Clostridium*	(i)	Statins
b.	*Aspergillus*	(ii)	Cyclosporin
c.	*Trichoderma*	(iii)	Citric acid
d.	*Monascus*	(iv)	Butyric acid

A. a(iv),b(iii),c(ii),d(i)

B. a(i),b(ii),c(iii),d(iv)

C. a(iv),b(ii),c(iii),d(i)

D. a(iv),b(ii),c(iii),d(i)

Answer: A

Watch Video Solution

690. According to chemiosmotic hypothesis, ATP synthetase form ADP when protons $\left(H^{+}\right)$,

A. Move from stroma to thylakoid lumen by simple diffusion

B. Move from stroma to thylakoid lumen by facilitated diffusion

C. Move from thylakoid lumen to stroma by active transport

D. Move from thylakoid lumen to stroma by facilitated diffusion

Answer: D

Watch Video Solution

691. The phase in which both the chromosome and DNA content becomes half is

A. Anaphase

B. Anaphase II

C. Anaphase I

D. Both (A) and (B)

Answer: C

Watch Video Solution

692. Sensory organs like antennae, eyes (compound and simple), statocysts or balancing organs are present in members of phylum

A. Mollusca

B. coelenterata

C. Arthropoda

D. Echinodermata

Answer: C

Watch Video Solution

693. Which one of the following is a matching set of the class and some of its main distinguishing features, classification, and examples?

A. Cyclostomata - Division Agnatha, 6- 15 pairs of gill slits, endoskeleton bony, Example: Myxine

B. Reptilia - Division Gnathostomata, epidermal scutes, endoskeleton body, Example: Hemidactylus

C. Amphibia - Super-class Tetrapoda, cloaca as a common opening for the alimentary canal and urinary tract

D. Chondrichthyes - Super-class Pisces, gill slits without operculum, exoskeleton cartilaginous, Example: Carcharodon

Answer: B

Watch Video Solution

694. A vegetative propagules in aquatic plants like Eichhornia (water hyacinth) is called

A. Stolon

B. Offset

C. Prop root

D. Bulb

Answer: B

Watch Video Solution

695. Zinc is required for synthesis of

A. Auxins

B. Gibberellins

C. Cytokinins

D. Ethylene

Answer: A

Watch Video Solution

696. In mitochondria, enzyme cytochrome oxidase is present in

A. outer membrane

B. Perimitrochondrial space

C. Inner membrane

D. Matrix

Answer: C

Watch Video Solution

697. Adiantum belongs to the class

A. Psilopsida

B. Sphenopsida

C. Pteropsida

D. Lycopsida

Answer: C

Watch Video Solution

698. Which of the following is essential for muscle contraction?

A. Na^{+}

B. K^{+}

C. Ca^{+2}

D. Cl^{-}

Answer: C

Watch Video Solution

699. Which of the following feature of vector is required to identify the transformed cell?

A. Selectable marker

B. Ori site

C. Rop

D. Restiction site

Answer: A

Watch Video Solution

700. Which one of the following cannot be explained on the basis of Mendel's Law of Dominance?

A. The discrete unit controlling a particular character is called a factor

B. Out of one pair of factors one is dominant, and the other is recessive

C. Alleles do not show any blending and both the characters recover as such in F_2 generation

D. All of these

Answer: C

Watch Video Solution

701. Consider the following statement and choose the correct option

(i) The thread like cytoplasmic strands, running from one cell to other is known as plasmodesmata

(ii) Xylem and phloem constitute the vascular bundle of the stem

(iii)The first form xylem elements are described as metaxylem

(iv) Radial vascular bundles are mainly found in the leaves

A. II is true, but I, Ill and IV are false

B. lll is true, but I, II and IV are false

C. IV is true, but I, ll and lll are false

D. I and II are true, but Ill and IV are false

Answer: D

Watch Video Solution

702. Which of the following set is not an example of divergent evolution?

A. Vertebrate hearts or brains

B. Marsupials and Darwin finches

C. Sweet potato and potato

D. Forelimbs of vertebrates

Answer: C

Watch Video Solution

703. Which of the following statement is correct about autoradiography?

A. A double-stranded DNA or RNA probe is allowed to hybridize to its complementary DNA

B. The clone having the mutated gene will appear on the photographic film.

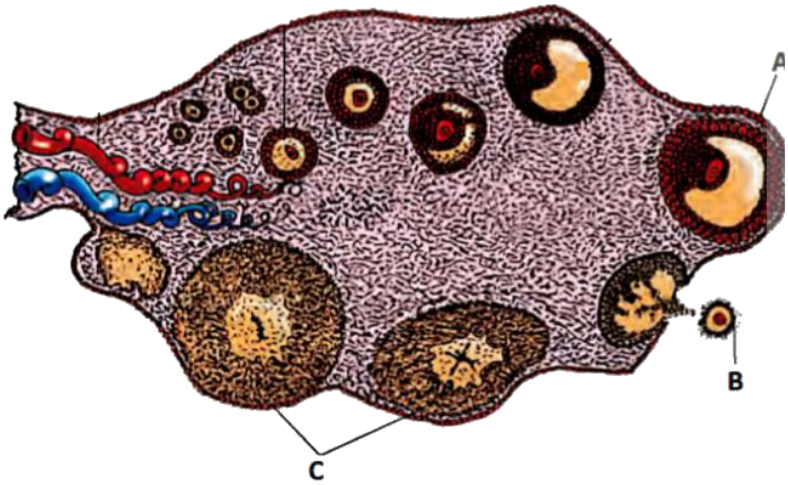
C. The probe will not have complementarity with the mutated gene

D. More than one option is correct

Answer: C

Watch Video Solution

704. Given below is the diagrammatic section view of the ovary. Identify parts labeled as A, B, and C



A.

A	B	C
Tertiary follicle	Ovum	Corpus luteum

B.

A	B	C
Graafian follicle	Ovum	Corpus albicans

C.

A	B	C
Graafian follicle	Ovum	Corpus luteum

D.

A	B	C
Corpus luteum	Ovum	Graafian follicle

Answer: C

Watch Video Solution

705. Which law states that each gamete has an equal chance of possessing either member of a pair of homologous chromosomes?

A. Segregation

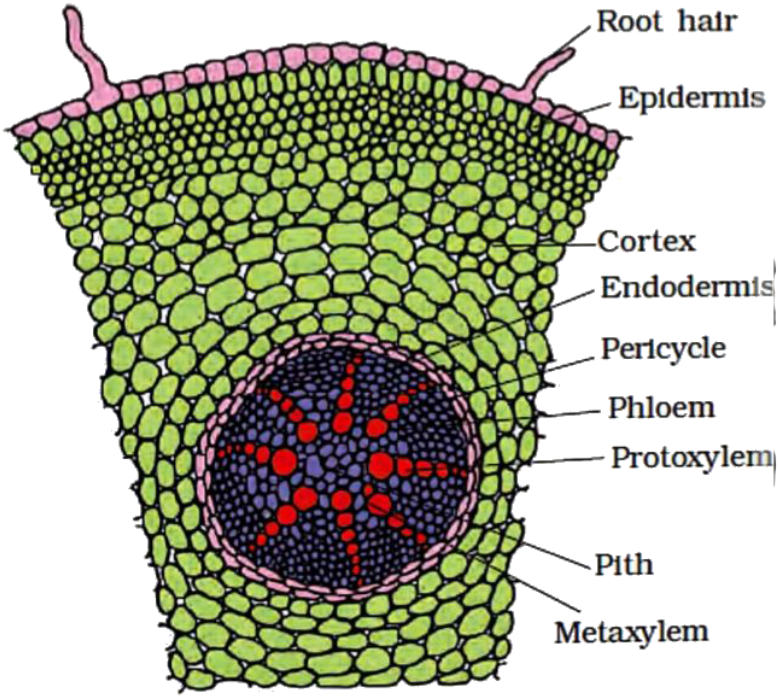
B. Independent assortment

C. Dominance

D. All of the above

Answer: A

Watch Video Solution



706.

The given figure shows T.S of

A. Dicot root

B. Monocot root

C. Secondary growth in dicot root

D. Secondary growth in monocot root

Answer: B

Watch Video Solution

707. Examples of In-situ conservation method are national parks, sanctuaries, biosphere reserves, and hotspots. The number of (A) national parks, (B) wildlife sanctuaries and (C) biosphere reserves of India, are

A. (A - 90), (B - 448), (C - 20)

B. (A - 78), (B - 212), (C - 18)

C. (A- 90), (B - 448), (C - 14)

D. (A- 58), (B - 412), (C - 14)

Answer: C

Watch Video Solution

708. The A leaves the eye and the retinal blood vessels enter it at a point medial to and slightly above the posterior pole of the eyeball. B is not present in that region and hence it is called the C . At the posterior pole

of the eye lateral to the C there is a yellowish pigmented spot called D with a central pit called the E

A.

A	B	C	D	E
Optic nerves	Photoreceptor cells	fovea	macula lutea	blind spot

B.

A	B	C	D	E
Optic nerves	Photoreceptor cells	macula lutea	blind spot	fovea

C.

A	B	C	D	E
Optic nerves	Photoreceptor cells	blind spot	macula lutea	fovea

D.

A	B	C	D	E
Optic nerves	Photoreceptor cells	blind spot	fovea	macula lutea

Answer: C

Watch Video Solution

709. Turgor pressure becomes equal to the wall pressure when

A. Water leaves the cell

B. No exchange of water takes place

C. Water enters the cell

D. Solute goes from the cell into water

Answer: B

Watch Video Solution

710. In which of the following, sporophylls may form distinct compact structures called strobili is found

A. Selaginaella and fuucs

B. Selaginella and Equisetum

C. Fusus and Cycas

D. Pteris and Polysiphonia

Answer: B

Watch Video Solution

711. Organelle involved in modification and routing of newly synthesised proteins to their destination is

A. chloroplast

B. Glyoxysomes

C. Endoplasmic reticulum

D. Golgi apparatus

Answer: D

Watch Video Solution

712. At G_1 stage, which phenomenon takes place

A. DNA synthesis

B. RNA transcription

C. Reverse transcription

D. All of these

Answer: B

Watch Video Solution

713. Which of the following hormones is modified amino acid ?

A. Epinephrine

B. Progesterone

C. Prostaglandin

D. Estrogen

Answer: A

Watch Video Solution

714. In the year 1963, the two enzymes responsible for restricting the growth of bacteriophage in E. coli were isolated. One of these added methyl groups to DNA, while the other cut DNA. The latter was called

A. restriction endonuclease

B. methylase

C. ligases

D. plasmid

Answer: A

Watch Video Solution

715. The immune system when works against self cells it is called

A. Self immune system

B. Autoimmunity

C. Specific immunity

D. None of the above

Answer: B

Watch Video Solution

716. Systemic heart refers to

A. The heart that contracts under stimulation from nervous system

B. Left auricle and left ventricle in higher vertebrates

C. Entire heart in lower vertebrates

D. Both the ventricles of human heart

Answer: C

Watch Video Solution

717. Which of the following statement is false?

A. Insulin stimulates cellular glucose uptake and utilisation and glycogenesis

B. Insulin deficiency result in a disease called diabetes mellitus

C. Glucagon inhibits glycogenolysis and gluconeogenesis

D. Thymosin increases the production of antibodies to provide humoral immunity

Answer: B

Watch Video Solution

718. The suffix - "idae" is used for

A. Species

B. Family

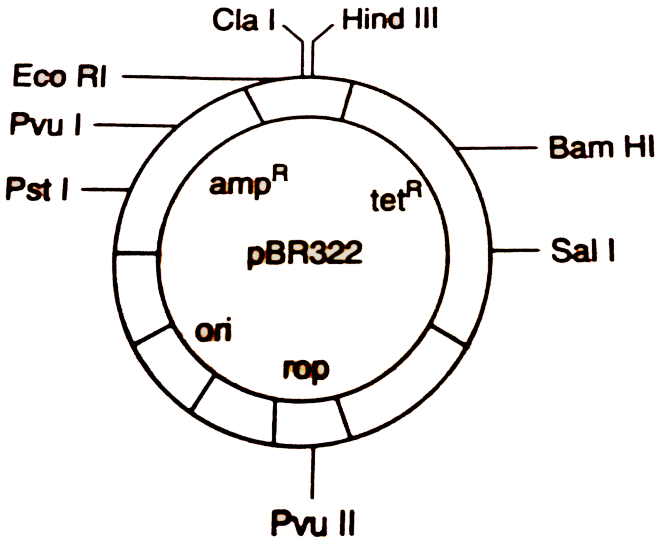
C. Class

D. Genus

Answer: B

Watch Video Solution

719. The given figure is the diagrammatic representation of the E. coli vector pBR322. Which one of the given options correctly identifies its certain component (s) ?



A. Ori -original restriction enzyme

B. Rop-reduced osmotic pressure

C. HindIII, EcoRI -selectable markers

D. amp^R, tet^R - antibiotic resistance genes

Answer: D

Watch Video Solution

720. Which is incorrect regarding Hisardale?

A. It is developed through crossbreeding .

B. it is a hybrid breed .

C. it is milch breed .

D. It is a high wool -producing crossbreed .

Answer: C

Watch Video Solution

Mcqs Biology

1. Spindle fibres are made up of

A. Proteins

B. Cellulose

C. Lipids

D. Pectin

Answer: A

Watch Video Solution

2. Which of the following types of RNA molecule can be described as soluble, relatively small nd having a folded compact shape

A. rRNA

B. tRNA

C. mRNA

D. Nucleaolar RNA

Answer: B

Watch Video Solution

3. Plant nomenclature means :-

A. to give names of plants without any rules

B. Nomenclature of plants under the international rules

C. Nomenclature of plants in local language

D. Nomenclature of plants in english language

Answer: B

Watch Video Solution

4. Which of the following is used for bolting in beet?

A. Kinetin

B. Xylene

C. Ethylene

D. gibberellin

Answer: D

Watch Video Solution

5. A polypeptide of five amino acids is synthesized during protein synthesis in eukaryotic cells. Which one of the following can be the correct polypeptide?

A. Glycine-valine-methionine-histidine-lysine

B. Methionine-glycine-histidine-lysine-valine

C. Valine-methionine-glycine-histidine-lysine

D. histidine-lysine-methionine-valine-glycine

Answer: B

Watch Video Solution

6. What is true for cyanobacteria?

A. Non-oxygenic without nitrogenase

B. Non-oxygenic with nitrogenase

C. Oxygenic with nitrogenase

D. Oxygenic without nitrogenase

Answer: C

Watch Video Solution

7. To determine whether F_1 hybrid is homozygous or heterozygous for a particular trait___Cross is performed.

A. Monohybrid

B. Test

C. Back

D. Reciprocal

Answer: B

Watch Video Solution

8. How many pigment molecules constitute a single photosystem?

A. 2500

B. 250-400

C. 2000

D. 2

Answer: B

Watch Video Solution

9. Antihistamine pills are to nullify:

A. Allergic reaction

B. Malaria

C. Typhoid

D. None of these.

Answer: A

Watch Video Solution

10. A cell swells up when kept in

A. Hypotonic solution

B. Hyperrtonic solution

C. Isotonic solution

D. all of the above

Answer: A

Watch Video Solution

11. Sphenoid bone is found in :

A. Hindi limb

B. Lower jaw

C. Pelvic girdle

D. skull

Answer: D

Watch Video Solution

12. One of the free-living, anaerobic nitrogenfixer is

A. Beijernickia

B. Rhodospirillum

C. Rhizobium

D. Azotobacter

Answer: B

Watch Video Solution

13. Which of the following material is not safe to prepare carry bags?

A. Cloth

B. Paper

C. Jute

D. Polythene

Answer: D

Watch Video Solution

14. Ribosomal RNA is actively synthesized in :-

A. Lysosomes

B. Nucleolus

C. Nucleoplasm

D. Riboromes

Answer: B

Watch Video Solution

15. In Kreb's cycle, the conversion of oxalosuccinate into α-ketoglutrate involves____reaction.

A. Oxidation

B. Reduction

C. Hydration

D. Decarboxylation

Answer: D

Watch Video Solution

16. Given below are some of the stages of the hydrarch.

(A) March-meadow stage

(B) Reed-swamp stage

(C) submerged plant stage (D) Phyotplankton stage

Select the option that represents the correct sequence of these stages.

A. IV,III,V,II and I

B. III,V,I,II and IV

C. II,IV,III,I and V

D. IV,V,III,II and I

Answer: A

Watch Video Solution

17. Mule is an example of____

A. cross-breeding

B. Interspecific hybridisation

C. Out-breeding

D. Out-crossing

Answer: B

Watch Video Solution

18. During rDNA technology, which one of the following enzymes is used for cleaving DNA molecule?

A. Exonuclease

B. Endonuclease

C. Restriction endonuclease

D. Helicase

Answer: C

Watch Video Solution

19. The chemical method of contraception includes

A. Jellies only

B. Creams and foams only

C. Oral contraceptives only

D. All of above

Answer: D

Watch Video Solution

20. Consider the following statements regarding photosynthesis

(A) ATP formation during photosynthesis is temed as photophosphorylation

(B) Kranz anatomy pertains to leaf

(C) Reduction of $NADP^+$ to NADPH occurs during Calvin cycle

(D) In a chlorophyll molecule mangesium is present in phytol tail

A. I and II correct

B. III and IV are correct

C. I and III are correct

D. I and IV correct

Answer: A

Watch Video Solution

21. Pollen tube at the time of entering embryo sac has

A. Four gametes

B. Three male gametes

C. Two male gametes

D. One gametic nucleus

Answer: C

Watch Video Solution

22. Knee joint and elbow joints are examles of

A. Hinge joint

B. Gliding joint

C. Ball and socket joint

D. Pivot joint

Answer: A

Watch Video Solution

23. Read the following statement and choose the correct option:

I. Agrobacterium tumerfaciencs, a pathogen of several monocot plants, is able to deliver a piece of DNA known as "T-DNA".

II. The tumor inducing (Ti) plasmid of Agrobacterium tumefaciens has been modified into a cloning vector, which is more pathogenic to the plants.

A. Both i and ii are correct

B. i is correct, while ii is incorrect

C. i is incorrect, while ii is correct

D. Both I and ii are incorrect

Answer: C

Watch Video Solution

24. The conversion of nitrate to nitrogen is called

A. Nitrification

B. Denitrification

C. Ammonification

D. Nitrogen fixation

Answer: B

Watch Video Solution

25. In man, recessive characters like haemophilla are mainly transmitted through

A. Y-chloromosome

B. Chromosome number 12

C. X-chromosome

D. Chromosome number 11

Answer: C

Watch Video Solution

26. Sertoli cells are regulated by the pituitary hormone known as

A. GH

B. Prolactin

C. LH

D. FSH

Answer: D

Watch Video Solution

27. The biogeographic region in india having maximum endemism for amphibians is

A. The westerns Ghats

B. The indo-Burma region

C. The himalayan range

D. The gangetic plains

Answer: A

Watch Video Solution

28. Biosphere reserves are different from National Park as

A. Humans are not integral part of biosphere reserve

B. Plants and animals are protected in biosphere reserves

C. Humans are an integral part of the biosphere reserve

D. Only plants are protected in-situ environment

Answer: C

Watch Video Solution

29. The chemotherapeutic substance derived from living organismas that has an inhibitory effect on parasitic organisms is known as

A. Exotoxin

B. Bactericide

C. Antibody

D. Antibiotic

Answer: D

Watch Video Solution

30. Phyllode is an adaptation to

A. Heterophtic environment

B. Halophytic environment

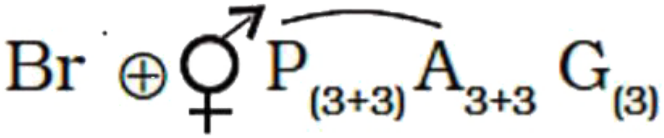
C. Mesophytic environment

D. Xerophytic environment

Answer: D

Watch Video Solution

31. Analyze the floral formula given below.



The floral formula corresponding to which of the following?

A. Crotolaria and Astragalus

B. Lepidium and Ibaeris

C. Allium and Asparagus

D. Vetiveria and Cymbopogon

Answer: C

Watch Video Solution

32. During the propagation of a nerve impulse, the action potential results from the movement of

A. K^+ ions from extracellular fluid to intracellular fluid

B. Na^+ ions from extracellular fluid to intracellular fluid

C. K^+ ions from intraceccular fluid to extracellularr fluid

D. Na^+ ions from intracecullar fluid to extracellular fluid

Answer: B

Watch Video Solution

33. The hardest part of the animal body is

A. Bone

B. Har

C. Dentine

D. Enamel

Answer: D

Watch Video Solution

34. Why is insulin not orally administered to the patient?

A. Insulin is a steroid

B. It is bitter in taste

C. Its activity increases after digestion

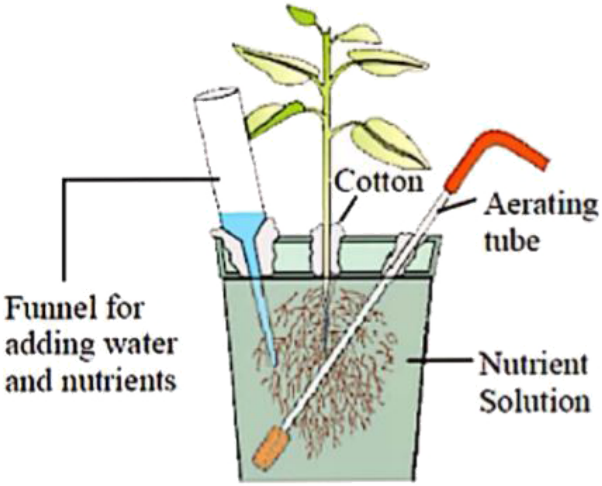
D. It will be digested in the stomach and will become non-functional

Answer: D

Watch Video Solution

35. Below diagram showing a technique for the culture of plants. This technique has been successfully employed for the production of which of

the following?



A. Tomato, apple, guava and Fig

B. Cucumber, Potato and Banyan

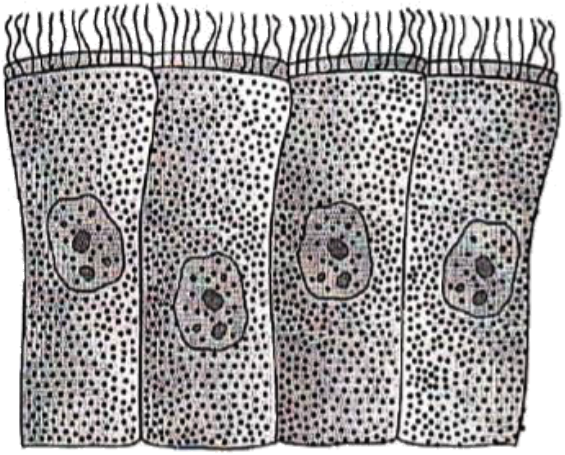
C. Cucumber, Lettuce and Tomato

D. Lettuce, apple, Potato and Mango

Answer: C

Watch Video Solution

36. Identify the given epithelium in the diagram with its correct location



	Epithelium	Location
a)	Ciliated columnar	Nephron
b)	Ciliated cuboidal	Trachea
c)	Ciliated columnar	Fallopian tube
d)	Compound	Skin

A. Epithelium — Location
Ciliated columnar — Nephron

B. Epithelium — Location
Ciliated cuboidal — Trachea

C. Epithelium — Location
Ciliated columnar — Fallopian tube

D. Epithelium — Location
Compound — Skin

Answer: C

Watch Video Solution

37. In a standard ECG which one of the following alphabets is the correct representation of the respective activity of the human heart ?

A. S-start of sytole

B. T-end of diastole

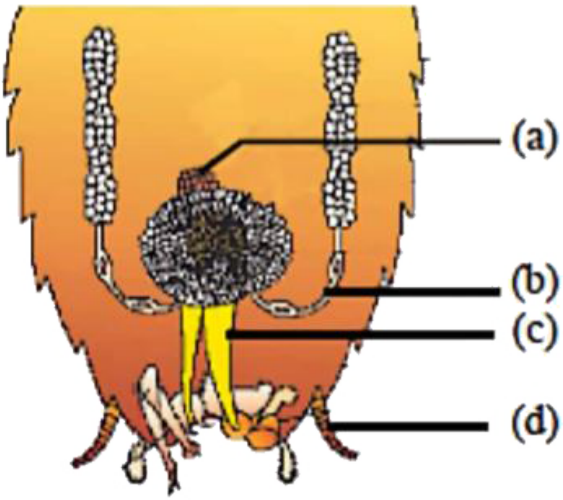
C. P-depolarisation of the atria

D. R-repolarisation of ventricles

Answer: C

Watch Video Solution

38. Consider the diagram below and label the structures (a-d).



A.

a	b	c	d
Colleterial gland	Vas deferens	Ejaculatory duct	Anal cercus

B.

a	b	c	d
Phallic gland	Vas deferens	Ejaculatory duct	Anal cercus

C.

a	b	c	d
Phallic gland	Ejaculatory deferens	Vas duct	Caudal style

D.

a	b	c	d
Phallic gland	Vas deferens	Ejaculatory duct	Titilator

Answer: B

Watch Video Solution

39. A jawless fish which lays eggs in fresh water and whose ammocoete larve after metamorphosis return to ocean is

A. Rohu

B. Neomyxine

C. Petromyzon

D. Eptatretus

Answer: C

Watch Video Solution

40. Afferent nerve fibres carry impulses from

A. Effector organs to CNS

B. Receptors of CNS

C. CNS to receptors

D. CNS to muscles

Answer: B

Watch Video Solution

41. Water potential is equal to

A. $\Psi_S + O.\ P.$

B. $\Psi_S + T.\ P.$

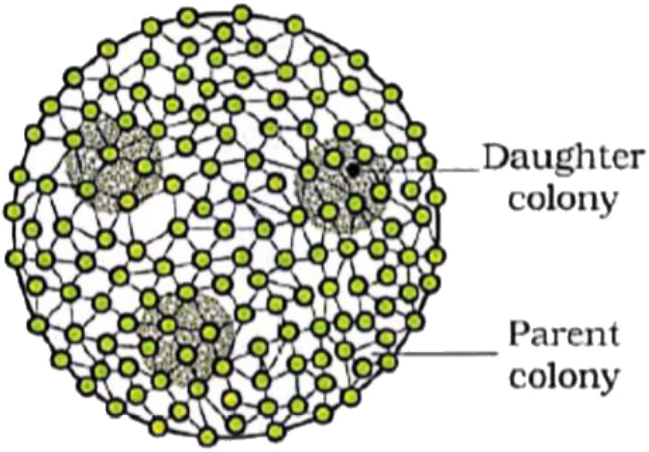
C. $\Psi_P + \Psi_W$

D. $\Psi_S + \Psi_P$

Answer: D

Watch Video Solution

42. The organism shown in the given diagram is



A. Spirogyra

B. Ulothrix

C. Oscillatoria

D. Volvox

Answer: D

Watch Video Solution

43. Which of the following STIs are not completely curable ?

A. Genital herpes

B. Hepatitis-B

C. AIDS

D. All of these

Answer: D

Watch Video Solution

44. Which was the biggest land dinosaur ?

A. Stegosaurus

B. Tyrannosaurus

C. Brachiosaurus

D. Triceraptops

Answer: B

Watch Video Solution

45. Synaptonemal complex is formed during

A. Pachytene

B. Zygotene

C. Leptotene

D. Diplotene

Answer: B

Watch Video Solution

46. Why is carbon monoxide (CO) poisonous for man?

A. It affects the nerves of the lungs.

B. It afects the diaphragm and intercostal muscles.

C. It reacts with the oxygen-reducing percentage of oxygen in the air.

D. haemoglobin combines with carbon monoxide instead of oxygen and the produce cannot dissociate.

Answer: D

Watch Video Solution

47. Organisms which can tolerate and thrive in wide range of temperature are called

A. Stenothermal

B. Homeotherms

C. Poikilotherms

D. Eurythermal

Answer: D

Watch Video Solution

48. A person suffering from cancer is treated with radiotherapy. Which of the following techniques is used in this treatment?

A. All tumour cells and surroundings normal cells get killed.

B. It is meant to cure damaged DNA

C. radiations activated p53 gene of tumour cell

D. tumour cells are irradiated lethanlly

Answer: D

Watch Video Solution

49. An example of gene therapy is

A. Production of injectable heptatitis B vaccine

B. Production of vaccines in food crops like potatoes which can be eaten

C. Introduction of the gene for adenosine deaminase in persons suffering from severe combined immuno deficiency (SCID)

D. Production of test-tube babies by artificial insemination and implantation of fertilized eggs

Answer: C

Watch Video Solution

50. Which is incorrect regarding Hisardale?

A. It is developed through cross-breeding.

B. It is a hybrid breed

C. It is a milch breed.

D. It is a high wool-producing crossbreed.

Answer: C

Watch Video Solution

51. Grave's disease is characterised by the following, except

A. Deposition of fats in eye sockets

B. Enlargement of thyroid gland

C. Weight loss

D. Weigh gain

Answer: D

Watch Video Solution

52. Which one of following is complex V of the ETS of inner mitochondrial membrane?

A. NADH Dehydrogenase

B. Cytochrome oxidase

C. Ubiquinone

D. ATP synthase

Answer: D

Watch Video Solution

53. Which combination of gases is suitable for fruit ripending

A. CO_2 and C_2H_6

B. CH_4 and CO_2

C. CO_2 and O_2

D. C_2H_4 and CO_2

Answer: D

Watch Video Solution

54. Which one of the following is a matching pair of certain organism(s) and the kind of association?

A. Sea anemone and clownfish-commensalism

B. Red algae annd fungi in liches-mutualism

C. orchids growing on trees-parasitism

D. Cuscuta (dodder) growing on other flowering plants-Epiphysis

Answer: A

Watch Video Solution

55. The correct sequence of reactions in Krebs cycle is:

A. Isocitric acid $\rightarrow \alpha -$ ketoglutaric acid $\rightarrow$ oxalosuccinic acid

B. Isocitric acid $\rightarrow$ oxalosuccinic acid $\rightarrow \alpha$-ketoglutatric acid

C. Oxalosuccinic acid $\rightarrow$ citric acid $\rightarrow \alpha$-ketoglutatric acid

D. α-ketoglutaric acidt $\rightarrow$ isocitric acid

Answer: B

Watch Video Solution

56. The process of spermiogenesis involves all of the following, except

A. Formation of mitochondrial sheath

B. Formation of proximal and distal centrioles

C. Formation of acrosomes

D. Shortening of sperm

Answer: D

Watch Video Solution

57. What is common between vegetative reproduction and Apomixis

A. Both are a sexual method of reproduction

B. Both produce progeny identical to the parent

C. Both are applicable to only dicot plants

D. Both bypass the flowering plant

Answer: B

Watch Video Solution

58. Protists are:

1. Unicellular and prokaryote

2. Unicellular and eukaryote

3. Multicellular and eukaryote

4. Autograph and heterotroph

A. 1,2 and 3

B. 2,3 and 4

C. 3 and 4

D. 2 and 4

Answer: D

Watch Video Solution

59. Which of the following are surface structures of a prokaryotic cell, but does not facilitate motility?

A. Pili

B. Flagella

C. Fimbriae

D. Both (A) and (C)

Answer: D

Watch Video Solution

60. Which of the following types of bacteria were used in Griffth's transformation experiment?

A. Diplococcus, R-III and S-II type

B. Pneumococcus, T_2 phase

C. Streptococcus, R-II and S-III type

D. Diplococcus, E. coli

Answer: C

Watch Video Solution

61. Read the different components from (A) to (D) in the list given below and tell he correct order of the components with reference to their arrangement from outer side to inner side in a woody dicot stem

(A) Secondary cortex , (B) Wood

(C)Secondary phloem , (D) Phellem

A. (i),(ii),(iv),(iii)

B. (iv),(i),(iii),(ii)

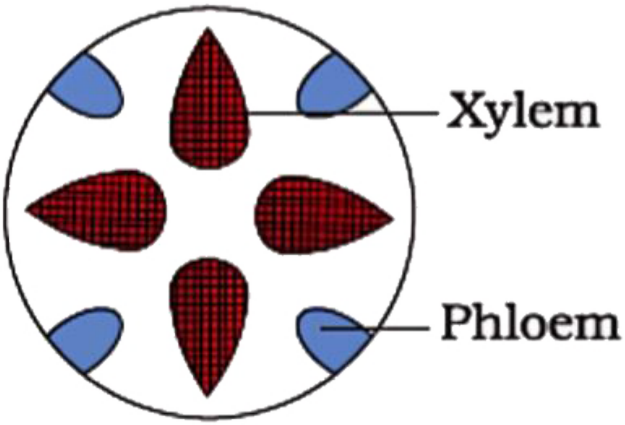
C. (iv),(iii),(i),(ii)

D. (iii),(iv),(ii),(i)

Answer: B

Watch Video Solution

62. Which type of arrangement is shown by the vascular bundle in the given diagram?



A. Open vascular bundles

B. Closed vascular bundles

C. Conjoint vascular bundles

D. Radial vascular bundles

Answer: D

Watch Video Solution

63. Select the correct statements with respect to poultry farm management.

A. The word poultry is often used to refer to the meat of only birds.

B. They typically include chicken and ducks, and sometimes turkey and geese.

C. Leghorn is an improved breed of chicken

D. All of these

Answer: D

Watch Video Solution

64. Which one is the cofactor of carboxypeptidase?

A. Iron

B. Zinc

C. Copper

D. Magnesium

Answer: B

Watch Video Solution

65. which of the following forms the pioneer community in hydrarch succession?

A. Wolffia

B. Phytoplankton

C. Lichen

D. Submerged free-floating plants

Answer: B

Watch Video Solution

66. The egrets always forage close to where the cattle are grazing. The interaction between them can be called

A. Brood Parasitism

B. Parasitism

C. Mutualism

D. Commensalism

Answer: D

Watch Video Solution

67. Each of the following statements concerning the seminiferous epithelium is true except.

A. Before puberty, it contains spermatids

B. It consists of sertoli cells and spermatogenic cells

C. It has a robust basement membrane

D. Its basal compartment contains spermatogonia

Answer: A

Watch Video Solution

68. Find the mismatched pair.

A. Physical barriers-mucus coating of the epithelium lining the gastrointestinal tracts.

B. Physiological barriers-acid in the stomach

C. Cellular barriers-PMNL-neutrophils

D. Cytokine barriers-saliva in mouth

Answer: D

Watch Video Solution

69. How many of the daughter cells obtained from a megaspore mother cell result in the formation of monosporic embryo sac?

A. Four

B. Three

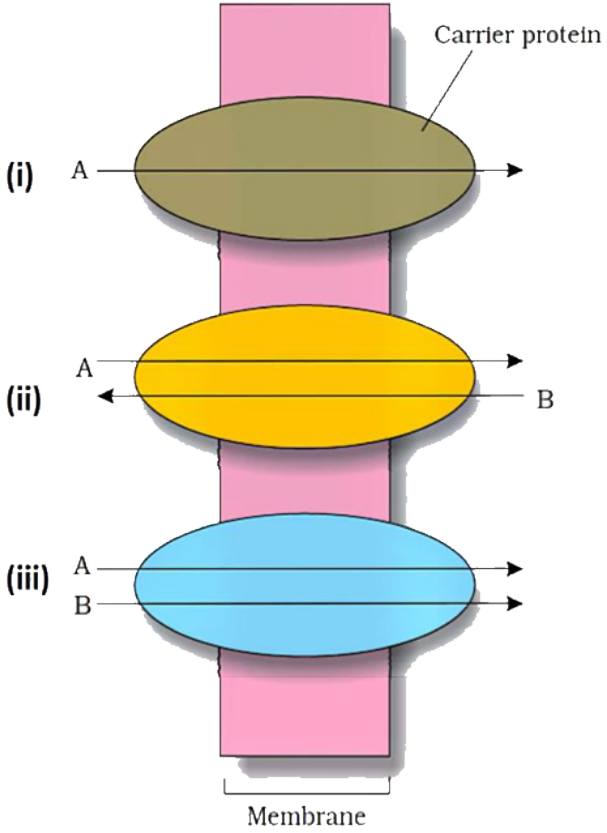
C. Two

D. One

Answer: D

Watch Video Solution

70. Identify the type of transport labelled (i), (ii) and (iii) in the diagram given below:



A.

(i)	(ii)	(iii)
Passive	Active	Facilitated

B.

(i)	(ii)	(iii)
Symport	Antiport	Uniport

C.

(i)	(ii)	(iii)
Uniport	Antiport	Symport

D.

(i)	(ii)	(iii)
Uniport	Symport	Antiport

Answer: C

Watch Video Solution

71. The mode of exretion in which animal excrete urea as major excretory waste is called

A. Ureotelism

B. Uricotelism

C. Ammonotelism

D. Aminotelism

Answer: A

Watch Video Solution

72. Industrial melanism is an example of

A. Protective resemblance with the surroundings

B. Defensive adaptation of skin against ultraviolet radiations

C. Drug resistance

D. Artificial selection

Answer: A

Watch Video Solution

73. Which of the following is correctly mathced?

A. pbR322-Enzyme

B. Ligase-Molecular glue

C. Agrobacterium-Production of insulin

D. EcoRI-Plamid vector

Answer: B

Watch Video Solution

74. The part of nephron involved in active reabsorption of sodium is

A. Distal convoluted tubule

B. Proximal convoluted tubule

C. Bowman's capsule

D. Descending limb of Henle's loop

Answer: A

Watch Video Solution

75. The serial arrangement of taxon/taxonomic category is known as

A. Category

B. Classification

C. Hierarchy

D. Taxonomy

Answer: C

Watch Video Solution

76. The pro-hormone insulin is processed to become a fully mature and functional insulin hormone by removal of

A. C peptide

B. A peptide

C. B peptide

D. Both (A) and (B)

Answer: A

Watch Video Solution

77. The green alga used by T.W Engelmann in his prism experiment is

A. Chlorella

B. Spirogyra

C. Cladophora

D. Ulothrix

Answer: C

Watch Video Solution

78. Which of the following does not match?

A. Pancreas-Largest exocrine gland

B. Antigen-Antibody

C. Thyroid-Goitre

D. Enzyme-Substrate

Answer: A

Watch Video Solution

79. In five kingdom classification, ascomycetes are indluced in

A. Monera

B. Protista

C. Animalia

D. Fungi

Answer: D

Watch Video Solution

80. Apical dominance in higher plants is due to

A. Auxin

B. Gibberellins

C. Ethylene

D. ABA

Answer: A

Watch Video Solution

81. Regeneration of a plant cell to give rise to new plant is called:

A. Reproduction

B. Budding

C. Totipotency

D. Pleuripotency

Answer: C

Watch Video Solution

82. The end of juvenile phase marks the beginning of

A. Vegetative phase

B. Reproductive phase

C. Senescence

D. Ageing

Answer: B

Watch Video Solution

83. Each testicular lobule contains___convoluted seminiferous tubules.

A. 1 to 3

B. 5 to 7

C. 8 to 10

D. 11 to 14

Answer: A

Watch Video Solution

84. Maximum bioconcentration of pesticide residue is usually found in birds that exclusively feed on:

A. Fish

B. Seeds

C. Worms

D. Meat

Answer: A

Watch Video Solution

85. Which one of the following groups of three animals is correctly matched with their one characteristic morphological feature?

A. Columba, Equus, and Balaenoptera-Dorsal hollow nerve cord and poikilothermous

B. Ptreopus, Pavo, Macropus and Psittacula-4 chambered heart and homeothermy

C. Ascaris, Wuchereria and Pheretima-Pseudocoelomates and metamerism

D. Dentalium, octopus, apis, and bombyx-open circulatory system and dorsal nerve cord

Answer: B

Watch Video Solution

86. Find the correct pair.

A. Arthritis-Decreased bone mass

B. Diabetes mellitus-Deficiency of ADH

C. Angina pectoris-acute shest pain

D. Emphysema-Inflammation of bronchi

Answer: C

Watch Video Solution

87. Antherozoids of both funaria and pteris were released togetehr near the archegonia of pteris. Only its sperms enter the archegonia as

A. Pteris archegonia repel funaria sperms

B. Funaria sperms get killed by pteris sperms

C. Funaria sperms are less mobile

D. Pteris achegonia release chemical to attract its pserms

Answer: D

Watch Video Solution

88. The gynocium may have more than one pistil. Such a condition is called

A. Monocarpellary

B. Apocarpous

C. Syncarpous

D. Multicarpellary

Answer: D

Watch Video Solution

89. Select the incorrect statement.

A. Large holes in Swiss cheese are due to production of a large amount of CO_2

B. Protease and pectinase is used to clarify the bottles juices

C. Penicillin was discovered by florey

D. In mycorrhiza, the fungi help in the absorption of nutrients

Answer: C

Watch Video Solution

90. Which one is polymer?

A. Sucrose

B. Glycogen

C. Fructose

D. Lactose

Answer: B

Watch Video Solution