





BIOLOGY

NEET & AIIMS

TEST 5



1. Consider the following cellular functions:

a. Transport of substances.

b. Synthesis of proteins.

- c. Synthesis of steroidal hormones.
- d. Glycogen metabolism.
- e. Detoxification of drugs.
- f. Giving rise to sphaerosomes.
 - A. Two
 - B. Four
 - C. Six
 - D. Five



2. The eukaryotic cell structure, which controls the activities of organelles and also plays a major role in heredity is

A. Nucleoli

B. Nucleus

C. Nucleoid

D. Mitochondria

Answer:

3. Select the incorrect statement

A. Leeuwenhoek first described a live cell

B. Robert Brown discovered the nucleus

C. Robert Hooke first saw a living cell

D. Schwann proposed that bodies of

animals and plants are composed of

cells and products of cells





4. One of the most important functions of the plasma membrane is the transport of molecules. Which of the following is correct w.r.t. this statement?

A. Polar molecules can pass easily through

the lipid bilayer

B. Polar molecules can pass easily through

the lipid bilayer transport

C. Neutral solutes require a carrier protein

of membrane for transport

D. The memebrane is selectively permeable

to some molecules present on either

side of it.

Answer:

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5. Algal cell wall is made of

- A. Calcium pectate
- B. Hemicellulose and pectin
- C. Cellulose, hemicellulose and pectin
- D. Cellulose, galactans and mannans

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6. Select the mis-match w.r.t. function of the

structure

A. Plasmid - Confers unique phenotypic

characters to bacteria

B. Fimbriae - Helps bacteria in motility.

C. Mesosome - Helps in DNA distribution to

daughter cells

D. Cell wall. Prevents the bacterium from

collapsing

Answer:

7. Inclusion bodies

A. Are bound by a unit membrane

- B. Store reserve material in eukaryotic cells
- C. Can be glycogen granules
- D. Are living structures

Answer:

8. Read the following statements, br A. Mitochondria help in generation of adenosine triphosphate. Br B - The outer mitochondrial membrane folds into several cristae

A. Only B is incorrect

B. Both A & B are correct

C. Only A is incorrect

D. Both A and B are incorrect

Answer:





- **9.** The cell envelope
 - A. Is present in most eukaryotic cells
 - B. Consists of a tightly bound three layered

structure with plasma membrane being

outermost

C. Has each layer performing similar

functions

D. Acts together as a single protective unit



10. In which of the following features bacterial cells, plant cells and animal cells show similarity?

- A. Cytoskeleton
- B. Glycocalyx
- C. 70 S ribosomes
- D. Flagella organisation



11. The function like delivery of packaged materials either to the intracellular targets or secreted outside the cell is principally performed by

A. Lysosomes

B. Golgi body

C. Vacuole

D. ER

Answer:

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12. Mitochondria and plastids are similar in all of the following aspects, except

A. Possess circular ds-DNA

B. Have endo-symbiotic origin

biosynthesis

D. Divide by fission

Answer:

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13. Select the incorrect match

A. Thylakolds - Contain chlorophyll

pigments

B. Chromoplasts - Contain xanthophyll

C. Leucoplast Stores tannin and resin

D. Food vacuoles - Have food particles

Answer:

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14. Lysosomes are

A. Double membrane bound vesicular

structures

B. Rich in few hydrolases

C. Formed by packaging in Golgi apparatus

D. Formed by engulfing the food particles

Answer:

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15. Chromosome with one shorter arm and one longer arm, having centromere slightly away from middle is

A. Acrocentric

B. Metacentric

C. Sub-metacentric

D.

Answer:



16. How many of the following features are associated with the endomembrane system?
Synthesis of steroidal hormones, Digestion of

food, Storage of waste, Storage of proteins,

Synthesis of ATP, Formation of glycolipid

A. Four

B. Three

C. Five

D. two

Answer:

17. Chromatin contains

A. DNA and histones

B. Non-histone proteins and RNA

C. DNA and proamines

D. More than one option is correct

Answer:

18. Select the odd one out w.r.t ribosomes

A. Synthesised inside the nucleus in

eukaryotes

B. Composed of DNA and proteins

C. Not surrounded by any membrane

D. Prokaryotic ribosomes are 70S

Answer:

19. Select the correct statement

A. Centrioles form the basal body of cilia and flagella B. Secondary constrictions on the chromosomes do not have a constant location C. Microbodies are present in plant cells

only

D. Nucleoli are less in number in cells

undergoing protein synthesis



20. Cell wall of fungi and plants are

- A. Non-living flexible structure
- B. Similar in composition to middle lamella
- C. Involved in cell-to-cell interaction
- D. Selectively permeable in nature





21. Lipid like steroidal hormones in animal cells

are synthesised in

A. Centrosome

B. SER

C. RER

D. Golgi apparatus

Answer:





- **22.** The membrane bound space found in the cytoplasm
 - A. Is active site for ribosomal RNA synthesis
 - B. Helps in protein synthesis
 - C. Contains water, sap, excretory product
 - D. Forms the spindle apparatus

23. Select the incorrect match

A. Cristae - Increase the surface area

B. Amyloplast - Store starch

C. Inner nuclear membrane - Bears

ribosomes

D. Kinetochore - Attachment site for

spindle fibres







24. Choose the incorrect option w.r.t. cell cycle

A. Events are under genetic control

B. DNA synthesis occurs during one specific

stage

C. Cytoplasmic growth is maximum in M-

phase

D. M-phase usually ends with cytokinesis

Answer:



- **25.** Human cells in culture, divide once in approximately every 24 hours, during this
 - A. Interphase lasts for 1 hour
 - B. G_1 , S and G_2` lasts for more than 22

hours

- C.S phase takes more than 95% of the duration
- D. M-phase takes 50% the time



26. Select the incorrect statement w.r.t the G_0 phase of the cells cycle

A. Cells do not proliferate

B. Also called quiescent stage

C. Cells remain metabolically inactive

D. Heart cells exit G_1 phase to enter this

phase

Answer:



27. The most dramatic period of the cell cycle, which involves major reorganisation of all

components of the cell is

A. S-phase

B. M-phase

C. G_2 -phase

D. Interphase

Answer:

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28. When viewed under the microscope, cells do not show Golgi complexes, ER, nucleolus and nuclear envelope during

- A. Early prophase
- B. End of prophase
- C. Telophase
- D. Interphase



29. Centromeres split, chromatids separate and move to opposite poles during

- A. Anaphase-1
- B. Metaphase
- C. Anaphase
- D. Telophase



30. Read the following statements

A - Most of the organelle duplication occurs

during G_1 -phase,

B - A very significant contribution of mitosis is

cell repair

A. Both (A) and (B) are incorrect

B. Both (A) and (B) are correct

C. Only A is incorrect

D. Only B is incorrect

Answer:

31. Chromosomes are fully condensed and the meiotic spindle is assembled to prepare the homologous chromosomes for separation during

A. Diakinesis

B. Diplotene

C. Pachytene

D. Zygotene

Answer:





32. Select the incorrect match

A. Leptotene - Chromosomes become

gradually visible

B. Zygotene - Formation of synaptonemal

complex

C. Diplotene - Terminalisation of chiasmata

D. Pachytene - Appearance of

recombination nodule



33. The homologous chromosomes separate while sister chromatids remain associated at their centromeres in

A. Prophase-I

B. Metaphase-I

C. Anaphase-I

D. Anaphase-II



- **34.** Consider the following events :
- a. Two nuclear divisions.
- b. One cycle of DNA replication.
- c. Formation of four haploid cells in the end.
- d. Genetically identical daughter cells. How

many are incorrect for meiosis?

A. a, b and c

B. b and c

C. Only d

D. c and d

Answer:

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35. A cell having 2n = 20, chromosomes with 2C amount of DNA, is undergoing mitosis, what will be the number of chromosomes and

amount of DNA during G_1 S and G_2 phases

respectively?

A. 20/2C, 20/4C, 20/4C

B. 20/2C, 40/4C, 40/4C

C. 20/2C, 40/2C, 40/4C

D. 10/C, 20/2C, 20/4C

Answer:

36. Select the correct statement w.r.t. interkinesis

A. Chromosomes reach the extremely

extended state.

B. it is just like interphase

C. Cell growth and centriole duplication

takes place

D. DNA replicates during this state

Answer:





37. If a cell at interphase stage has 2n = 40, it

will form how many bivalents during prophase-I?

- A. 20
- B.40
- C. 10
- D. 15

Answer:



38. Recombinase enzyme is synthesised in

A. Anaphase-I

B. Anaphase-II

C. Mitotic Anaphase

D. Prophase-I

Answer:

39. Chromosome number of the parent is conserved in the daughter cells in

A. Equational division

B. Meiosis

C. Reduction division

D. Gametogenesis

Answer:

40. Nuclear envelope assembles around the

chromosome clusters during

A. Prophase

B. Metaphase

C. Anaphase

D. Telophase

Answer:

41. In some organisms karyokinesis is not followed by cytokinesis, which results in the formation of

A. Haploid cell

B. Syncytium

C. Diploid cell

D. Uninucleate cell

Answer:

42. Air entering the lungs of a patient through a tracheotomy (a tube inserted directly into the trachea) is colder and drier than normal, which often causes lung infection. This occurs primarily because the air

A. Enters the respiratory system too rapidlyB. Is not properly humidified by the larynxC. Does not flow through the nasal

passages

D. Does not flow past the mouth and

tongue

Answer:



43. In the process of fat emulsification, bile salts make fats more susceptible to the action of lipases by

A. Lowering the pH of fluids in small

intestine

B. Functioning as a catalyst for the lipases

C. Transporting fat globules to the region

of lipase activity

D. Increasing the surface area of the fat

globules, exposed to lipase

Answer:

44. The pancreatic enzyme steapsin is involved

in the digestion of

A. Starch

B. Protein

C. Fat

D. Nucleic acid

Answer:

45. CO_2 is primarily transported in the arterial

blood as

A. Dissolved CO_2

B. Carbonic acid

C. Carbaminohaemoglobin

D. Bicarbonate

Answer:

46. Which of the following does not occur as the blood passes through systemic capillaries in tissue?

A. Unloading of oxygen

B. Shift of hemoglobin dissociation curve

to left

C. Shift of oxygen-hemoglobin dissocation

curve to right

D. Every 100 ml of oxygenated blood can

deliver around 15 ml of O_2 to the tissues

during strenuous exercise

Answer:

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47. Read the statements given below and mark the correct statement

A. O_2 diffuses more easily than CO_2 across diffusion boundary in alveoli because

solubility of O_2 is higher than CO_2

B. Arterial blood delivers 5 ml per dl of O_2 to tissue under normal physiological conditions C. Percentage of O_2 carried in chemical combination in blood is 3%D. O_2 delivery to tissues does not depend on cardiac output and haemoglobin concentration

Answer:



48. Spirometry can demonstrate and measure all of the following, except

A. Tidal volume

B. Vital capacity

C. Residual volume

D. Inspiratory reserve capacity

Answer:

49. Mark the option that defines functional residual capacity

A. Volume remaining in lungs after forced

expiration

B. Volume remaining in lungs after normal

expiration

C. Inspiratory capacity minus inspiratory

reserve volume

D. Maximum volume of air a person can

breathe out after a forced inspiration

Answer:



50. Mark the correct set of muscles involved in

forceful expiration in humans

A. External intercostal and internal

intercostal muscle

B. Diaphragm and abdominal muscles
C. Diaphragm and external intercostal muscles
D. Abdominal muscles and internal intercostal muscles

Answer:

51. A person suffers punctures in his chest cavity in an accident, without any damage to the lungs its effect could be

A. Reduced breathing rate

B. Rapid increase in breathing rate

C. No change in respiration

D. Cessation of breathing

Answer:

52. Mark the statement that explains condition

called apnea

A. Stoppage of heart beat

B. Cessation of breathing

C. Painful breathing

D. Irregular respiration

Answer:

53. Why is the epiglottis important?

- A. It regulates the flow of chyme
- B. It separates the pharynx from the nasal cavity
- C. It is the passage through which the food

travels into the stomach

D. It prevents the food from going down

the trachea

Answer:





54. Which of the following cannot act as stimulus for excitation of central chemoreceptors?

A. Fall in pO_2 in arterial blood

B. Increase in pCO_2

C. Fall in pH

D. Increase in H^+ ion concentration

Answer:





55. Decompression sickness is observed in

A. Astronauts

- B. Undersea divers
- C. Chronic smokers
- D. Worker in coal mine

Answer:

56. Which of the following terms is matching with its volume and capacities?

- A. Residual volume 800 ml to 1000 ml
- B. Inspiratory reserve volume 1500 ml to

2500 ml

C. Functional residual capacity - 2100 ml to

2300 ml

D. Expiratory capacity -- 2500 ml to 3000 ml

Answer:





57. SA node acts as a pacemaker of the heart because of the fact that it

A. Is capable of generating impulses

spontaneously at irregular rate

B. Has rich sympathetic innervations

C. Generates impulses with greatest

rhythmicity

D. Is located in right atrium



58. During the cardiac cycle valves that open at the end of isovolumetric contraction

A. Tricuspid valve

- B. Semilunar valves
- C. Bicuspid valve
- D. Both (1) & (3)





59. In a normal ECG, ventricular depolarisation

is represented by

A. P wave

B. QRS complex

C. ST segment

D. T wave



60. Site of erythropoiesis in 20 year old healthy male is

A. Liver

- B. Red bone marrow
- C. Spleen
- D. Yolk sac



61. Deficiency of which vitamin can lead to clotting related problem

A. B complex

B. C complex

C. K complex

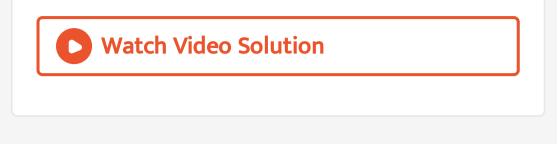
D. E complex



62. What is the condition called when heart muscle is suddenly damaged by an Inadequate blood supply In myocardial infarction?

A. Angina

- B. Heart failure
- C. Cardiac arrest
- D. Heart attack



63. Difference between artery and vein includes all, except

A. Diameter of vessel

B. Valves

C. Elasticity of vessel wall, smooth muscles

in tunica media

D. Type of cells in endothelium

Answer:

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64. A unique vascular connection that exists between the digestive tract and liver is called hepatic portal system. Select the blood vessel that brings deoxygenated but nutrient blood from intestine to liver?

A. Hepatic vein

B. Hepatic artery

C. Hepatic portal vein

D. Hepatic portal artery

Answer:

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65. The organ that receives blood first when heart pumps oxygenated blood from left ventricle

A. Brain

B. Kidney

C. Heart

D. Liver

Answer:

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66. Presence of which of the following hormones can increase the strength of ventricular contraction,

- a. Epinephrine,
- b. Acetylcholine,
- c. Nor adrenaline,
- d. Catecholamines

A. a, b & c

B. b, c & d

C. a, c & d

D. a, b, c & d



67. The action potential is conducted to the ventricles by AVN (Atrioventricular node) damage to AVN results in

A. Tachycardia

B. Heart block / Ventricular escape

C. Atherosclerosis

D. Congestive heart failure

Answer:

68. What percentage of ventricular filling is achieved by atrial contraction?

A. 0.66

$$\mathsf{B.}\left(\frac{1}{3}\right)rd$$
$$\mathsf{C.}\left(\frac{2}{3}\right)rd$$

D. 0.75



69. What is the stroke volume in a person if his resting cardiac output is 5.25 L/min and heart rate = 75/min?

A. 70

B.75

C. 80

D. 72



70. The first heart sound lubb' is associated with

- A. Beginning of isovolumetric diastole
- B. Closure of mitral valve and tricuspid

valves

- C. Opening of atrioventricular valves
- D. Closure of semilunar valves



71. Find the mismatch

A. Neutrophils - Exhibit diapedesis

B. Basophils - Least number of cells/ml of

blood

- C. Monocytes Bean shaped nucleus
- D. Lymphocytes Granulocytes phagocytic

cells.





72. How many of the following are protein digesting enzymes secreted by Intestine? Br a. Secretin, b. Trypsin, br c. Pepsin, br d. Sucrase.

A. Zero

B. One

C. Three

D. Five







73. Pulses consumed in diet by a ten year old child are acted upon first by

A. Gastrin in stomach

B. Pepsin in stomach

C. Rennin in stomach

D. Trypsin in stomach

Answer:

74. Monomers as end products are produced by the action of all, except

A. Dipeptidase

B. Nucleases

C. Sucrase

D. Carboxypeptidase

Answer:

75. Which of the following has been correctly

matched with its source cell?

A. Trypsinogen - Brush border cells

B. HCI - Chief cells

C. Castle's intrinsic factor - Oxyntic cells

D. Pepsin - Parietal cells

Answer:

76. Relaxation of which of the following is responsible for release of bile from common bile duct into pancreatic duct?

A. Sphincter of Oddi

B. Sphincter of Boyden

C. Lesser oesophageal sphincter

D. Upper oesophageal sphincter

Answer:

77. Which of the following enzymes is not secreted by villi present in small intestine?

A. Lactase

B. Enterokinase

C. Nucleosidase

D. Amylase acting at pH 7.8

Answer:

78. Which of the following are absorbed directly into lymph vessels called lacteals instead of blood?

A. Amino acid

B. Chylomicrons

C. Maltose

D. Glucose

Answer:

79. A person complains of abnormal frequency of bowel movement and increased liquidity of faecal discharge. He is suffering from

A. Jaundice

B. Indigestion

C. Diarrhoea

D. Constipation

Answer:

80. Maximum absorption of total water which we ingest occurs in which part of alimentary canal?

A. Large intestine

B. Jejunum

C. Stomach

D. Mouth

Answer:

81. Number of teeth in upper jaw of a teenager

is

A. 28

B. 14

C. 6

D. 12

Answer:

82. Neural signals that lead to activation of

parasympathetic system trigger all, except

A. Decreased release of saliva

B. Increased peristaltic movement

C. Decreased heart rate

D. Increased release of gastric juice

Answer:

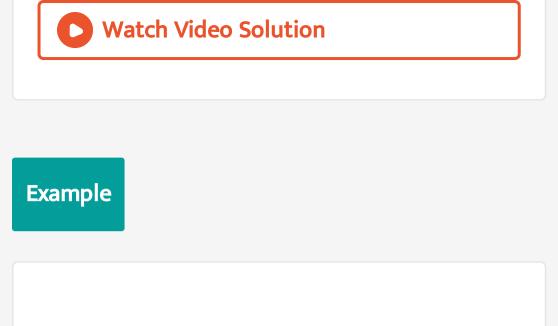
83. If a child consumes 150 g of lentils (proteins), 500 ml of water, 100 g of green leafy vegetables, 20 g of butter and 100 g of whole wheat bread, what is the total kilocalorie intake?

A. 600

B. 1180

C. 870

D. 2300



1. Uptake of nitrogen by plants occurs in all of

the given forms, except

- A. NO_3 –
- $B.NO_2 -$
- $\mathsf{C}.NH_4 +$

D. N_2O

Answer:



2. Which of the given sets of elements is present in plant tissue in excess of 10 mmole kg-1 of dry matter?

A. N , P, K, B

B. Ca, Mg, S, Cl

C. N, S, B, O

D. N, Ca, S, K



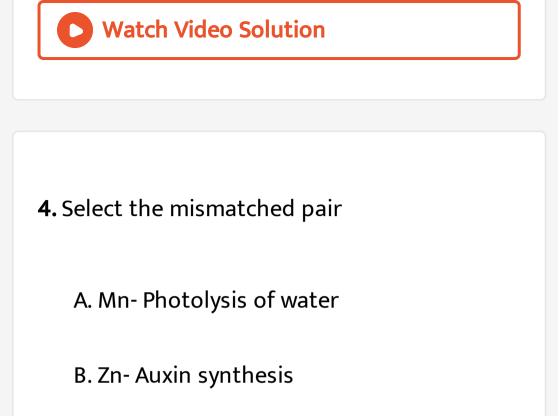


3. Sulpher is not a component of

A. Cysteine

- B. Biotin
- C. Deoxyadenosine
- D. Coenyme-A





- C. Cu- Nitrate reductase
- D. Fe- Activator of carboxylases

Answer:

5. Identify the element on the basis of given statements a. Its deficency symptoms first appear in young leaves, b. It is required in formation of miotic spindle

A. B

B. Fe

C. Ca

D. S





6. Chosse the odd one w.r.t the elements which help in maintainig cation-anion balance in cells

A. P

B. Na

C. K

D. Cl



7. Toxicicity of manganese in aplant result in a. Brown spot surrounded by chlorotic venis, b. Increases in uptake of Fe, c. Inhabition of Ca translocation in shoot apex

A. Only a

- B. Both a and b
- C. Only c
- D. Both a and c

Answer:



8. Movement of ions into synplast area of a plant cell

A. Is an active process

B. Is metabolic phase of mineral absorption

C. Does not involve transmembrane

protines

D. Both 1 and 2

Answer:

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9. $2NH3 + 3O2 \ 2NO2 - + 2H + + 2H2O$ The organism responsible for the above conversion can be all, except

A. Chemoautotrophs

B. Nitryfying bacteria

C. Filamentous BGA

D. Free living

Answer:



10. Enzyme nitrogenese will be absent in

A. Frankia

B. Azotobacter

C. Anabaena

D. Nitrococcus

Answer:

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11. The region of nodule here Rhizobium is active, lacks

A. Leghemoglobin

B. Molecular oxygen

C. Nitrogenase enzymes

D. ATP

Answer:

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12. Read the following statements and mark them as True (T) or False (F)

A. Plants can assimilate ammonium ions only,

B. Rhizobium is an obligate anaerobe,

C. In legumes, nodule is formed by inner cortex and pericycle cells. A. A (T), B (F), C (T)

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

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

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

Answer:

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13. A + NH4 + BCGlatamate + H2O + D

complete the above conversion with suitable option for A, B C and D.

A. A Glutamic, B FADH2, C Glutamate DEHYDROGENASE, D FAD B. A Oxaloacetic, B NADPH, C Glutamate dehydrogenase, D NADP C. A α -ketoglutaric acid, B NADPH, C Glutamate dehydrogenase, D NADP D. A α -ketoglutaric acid, B NADPH, C Transaminase, D NADP

Answer:

14. Read the following statements and choose the correct option

A: Asparagine contains more nitrogen than the aspartic,

B: amides are derived from amino acids in which hydroxyl part of acid is replaced by another amino group.

A. Only A is true

B. Only A is false

C. Both A and B are true

D. Both A and B are false

Answer:

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15. Mark the odd statement for ureides

A. Transported via vessels

B. Have low nitogen to carbon ratio

C. Formed in soyabean plant

D. Produced inside nodule



16. Which of the following is not a benefit of hydroponics

A. Contorols soil borne pathogens

B. Can regulate pH for a specific crop

C. Can be used in areas having thin,

infertile and dry soils

D. High cost of setting

Answer:

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17. Deficiency of which element is not responsible for death of leaf tissues

A. Mo

B. Ca

C. Mg

D. K

Answer:

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18. Mark the incorrect match.

A. Rhodospirillum — anaerobic nitrogen

fixer

B. Azotobacter — aerobic nitrogen fixer

C. Bacillus vulgaris — denitrifying bacteria

D. Rhizobium — N_2 fixation in alfalfa

Answer:

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19. Elements found in ferredoxin are

A. Fe and S

B. Fe and Ca

C. Fe and Zn

D. Fe and Mn



20. Chlorophyll synthesis will be largely affected due to deficiency of which of the following sets of elements?

A. K, Fe, Mg

B. Fe, Mg, Ca

C. Fe, Mg, Zn

D. K, Fe, S



21. T.W. Engelmann prepared the first action spectrum of photosynthesis by jsing

A. Cladophora

B. Aerobic bacteria

C. Hydrilla

D. Both (1) and (2)



22. A pigment appears yellow-orange in the chromatogram and found in leaves of higher plants, helps
(a) In absorption of light of different wavelength
(b) To prevent oxidative destruction of chlorophyll pigment by light.

(c) By absorbing wavelengths beyond visible

spectrum which increases the efficiency of

photosynthesis.

A. Only b

B. Only b & c

C. All a,b & c

D. Only a & b

Answer:

23. which of the given statements are true regarding PSI and PSII? a. both are found on stroma lamellae b. both are involved in non cyclic flow of electrons c. only PSII is associated with the release of O_2 d. PSII lies on outer surface where as PSI lies on inner surface of thylakoids

A. only b& c

B. All a, b, c&d

C. only b, c & d

D. only c& d

Answer:

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24. the condition(s) under which cyclic photophosphorylation occurs is/are a. light of wavelength beyond 680 nm b. anaerobic conditions c. poor CO_2 availability

A. all a, b & c

B. only a & b

C. only a

D. only b & c

Answer:

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25. Synthesis of ATP by enzymes present on

thylakoids does not involve

A. a transmembrane channel

B. change in confirmation of F₁
C. facilitated diffusion of protons across the membrane
D. diffusion of electrons along with protons back to the stroma.

Answer:

26. which of the given is not a component of

assimilatory power for dark reaction?

A. ATP

B. NADPH

 $\mathsf{C}.CO_2$

D. Both ATP & NADPH

Answer:

27. choose the odd one w. r. t. the steps of

Calvin cycle

A. carboxylation

B. reduction

C. regeneration

D. dearmination

Answer:

28. The C_4 pathway of CO_2 fixation is an adaptation of plants found mainly in

A. Xerophytic conditions

B. Dry tropical regions

C. Temperate regions

D. Alphine regions

Answer:

29. the dual activity of RuBisCO is found in

A. Maize

B. Sorghum

C. sugarcane

D. Wheat

Answer:

30. read the following statements and state them as true (T) or false (F) a. in both potato and amaranthus, Calvin cycle corporates in Bundle shreath cells b. both RuBisCO and PEPcase catalyse the process of carboxylation c. dark reaction is not dependent directly on presence of light d. Calvin cycle operates in all plants, be they C_3 , C_4 and CAM

A. F T T F

B.FTFF

C. F T T T

D. T F T F

Answer:

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31. the most abundant enzyme of the world is related to all, except

A. heat sensitivity

B. photorespiration

C. have much greater affinity for O_2 than

CO_2 when O_2 : CO_2 is nearly equal

D. Have Mg^{2+} as its activator

Answer:

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32. For every CO_2 molecule entering the calvin cycle, the number of ATP and NADPH required

is

A. 3, 3

- B. 18, 12
- C. 2, 3
- D.3, 2

Answer:

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33. Make the incorrect statement for kelvin

cycle

A. Primary CO_2 acceptor molecule is a five

carbon ketose sugar

B. Conversion of PGA to PGAL requires only

NADPH

C. To continue the cycle uninterrupted, the

RuBP must be regenerated

D. Carboxylation is the most crucial step of

the cycle

Answer:

34. Plants showing C_4 pathway are better than the C_3 plants in

A. Utilisation of water

B. Having photorespiration

C. Producing more yield at very high CO_2

concentration

D. Being sensitive to high temperature





35. Bundle sheath cells are to similar in mesophyll cells in (a)Having grana (b)Having large number of chloroplasts (c)Being involved in CO_2 fixation (d) being impervious to gaseous exchange (e) their primary CO_2 fixation

A. only c and e

B. only c

C. only a, b and e

D. only a and d

Answer:

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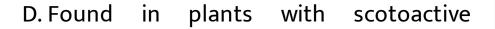
36. Diurnal acid cycle is

A. As efficient as C_4 cycle

B. Responsible for fast growth of

succulents

C. Related to chloroplast dimorphism



stomata

Answer:



37. Photorespiration is useful for plants as it

A. Protects plants from photo-oxidative

damage

B. Provides net gain 2 ATP

C. Enable RuBisCO to show its oxygenase

activity

D. Increase rate of CO_2 fixation

Answer:

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38. In C_2 cycle oxygenation and

decarboxylation is occur respectively in

A. Chloroplast and peroxisome

B. Chloroplast and mitochondria

C. Mitochondria and chloroplast

D. Mitochondria and peroxisome

Answer:

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39. Select the correct match for C_4 cycle —

A. First product of CO_2 fixation - 3 carbon

compound

B. PEP synthetase - cold sensitive

C. Transportation of C_4 acid(OAA)

Mesophyll cells

D. Regeneration of primary CO_2 acceptor -

Bundle of sheath

Answer:

40. Choose the odd one w.r.t the four carbon

acid formed during C_4 cycle

A. Oxaloacetic acid

B. Malic acid

C. Aspartic acid

D. Pyruvic acid

Answer:

41. At low light intensities, increase of CO_2 concentration will A. Increase the rate of photosynthesis in C 3 plants B. Increase the rate of photosynthesis in C 4 plants C. Increase the rate of photosynthesis in both C 3 and C 4 plants D. Neither affect the rate of photosynthesis

in C_3 nor C_4 plants



42. cyclic photophosphorylation differs from non-cyclic photophosphorylation in formation of

- A. Both ATP and NADPH
- B. ATP only
- C. NADPH only
- D. Both ATP and O_2



43. How many ATP molecules are required in C_3 and C_4 cycles respectively to form two molecules of hexose sugar in maize plant?

A. 36, 24

B. 30, 18

C. 24, 36

D. 18, 30



44. Nervous system is differ from endocrine system because

A. Transmission of information is

comparatively slower

B. Response is comparatively slower

C. Response is longer duration

D. Response is limited to only those cells

which are innervated by neurons

Answer:

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45. Which of the following hormone has significant anabolic effect on muscle proteins

A. Cortisol

B. Thymosin

C. Parathormone

D. Growth hormone

Answer:



46. Choose the incorrect match

A. Cholecystokinin - Duodenal mucosa

B. TCT - Thyroid gland

C. Gonadotrophin - Adenohypophysis

D. Somatotrophin - Hypothalamus

Answer:

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47. Hyposecretion of which hormone since pregnancy causes stunted growth in humans ?

A. PRH

B. FSH

C. Thyroxine

D. Insulin

Answer:

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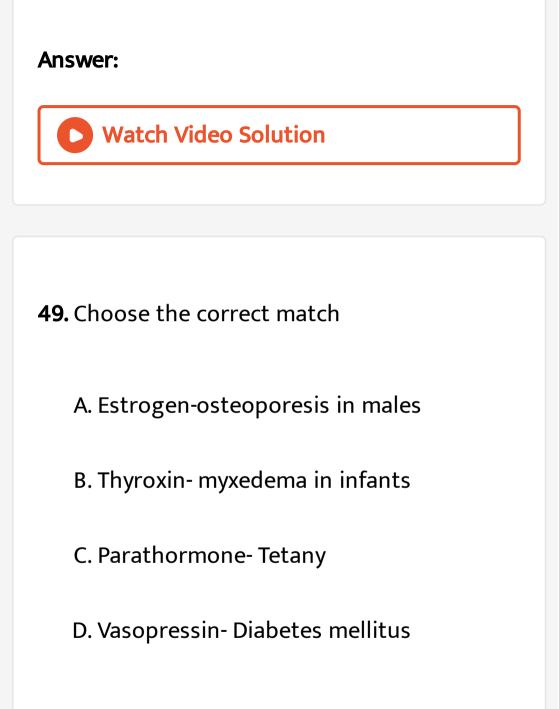
48. The largest endocrine gland is

A. Pituitary gland

B. Thyroid gland

C. Adrenal gland

D. Thymus gland



Answer:



50. Innermost layer of adrenal cortex secrets mainly

A. Aldosterone

B. Cortisol

C. Androgenic steroids

D. Epinephrine

Answer:





51. Destruction of adrenal cortex results in

disease is known as

A. Addison's disease

B. Cushing's disease

C. Exophthalmic goiter

D. Conn's disease

Answer:

52. Which of the following is hypoglycemic hormone

A. Glucagon

B. Thyroxin

C. Insulin

D. Growth hormone

Answer:

53. Cells in testes responsible for secretion of

hormone testosterone are

A. Leydig cells

B. Sertoli cells

C. Sustentacular cells

D. Spermatozoa

Answer:

54. Thymosin is a

A. Peptide hormone that helps in maturation of T-lymphocytes B. Proteinaceous enzyme C. Peptide hormone secreted by thyroid gland D. Catecholamines secreted during emergency

Answer:





55. All of the following are true for hormone gastrin except

A. Acts antagonistically to enterogastron

B. Increase secretion of HCL

C. Increase secretion of pepsinogen

D. Increase secretion of gastric amylase

Answer:

56. Pars distalis of pituitary gland does not secret

A. PRL

B. TSH

C. ACTH

D. ADH

Answer:

57. Corpus luteum formed from the remnants of graffian follicles after ovulation is maintained by

A. LH

B. FSH

C. Progesterone

D. Estrogen

Answer:

58. Pineal gland is located on

A. Ventral side of forebrain

B. Latetral side of forebrain

C. Dorsal side of forebrain

D. Ventral side of midbrain

Answer:

59. Gustatoreceptor presents on tongue are

responsible for detection

A. Chemical stimulus

B. Mechanical stimulus

C. Pain stimulus

D. Electrical stimulus

Answer:

60. Choose the incorrect match

- A. T_3 Promotes erythropoiesis
- B. TCT Regulates blood calcium level
- C. PTH Stimulates the process of bone

resorption

D. Epinephrine - Decrease alertness and

increase pupillary constriction

Answer:

61. In human females, secondary sexual

character are controlled by

A. Progesterone

B. parathomone

C. Estrogen

D. FSH

Answer:

testosterone are correct except

A. Stimulates growth OF Facial and axillary

hair

- B. Influences the male libido
- C. Stimulates muscular growth
- D. Causes catabolic effects on protein and

carbohydrate metabolism

Answer:

63. All of the following receptors are present in dermis of human skin except

A. Pancinian corpuscles

B. Meisser's corpuscles

C. Ruffini's organ

D. Merkel's discs

Answer:

64. The hormone responsible for milk formation and secretion in alveoli of mamary gland is

A. Vasopressin

B. oxytocin

C. Prolacitin

D. Proactin and oxytocin respectively

Answer:



65. Chosse the incorrect match

A Cretinism- Deaf mutism due to hyposecretion of thyroxine B. Goitre- Enlargement of thyroid gland due to hyperscretion of TSH C. Diabetes insipidus- Duresis due to hyposecretion D. Myopia- This defect can be overcome by

using convex lens

Answer:



66. Identify the hormone which is correctly matched with respect to its source and function









Answer:



67. Hormone recognised as an amino acid derivative is

A. Glucagon

B. ANF

C. Aldosterone

D. Adrenaline





68. Endocrine gland among the following is

- A. Mammary gland
- B. Salivary gland
- C. Lacrimal gland
- D. Parathyroid gland

Answer:



69. Action of water soluble hormone is executed through secondary Messenger.All of the following are secondary messengers except

A. cMAP

B. cGMP

C. Ca^{2+}

D. ATP





70. Cells absent in retina are

A. Bipolar cells

- B. Photoreceptor cells
- C. Ganglionic cells
- D. Hair cells





71. All the given features regarding human ear are correct except

A. Endolymph is present in scala media

- B. Stapes is attached with oval window
- C. Basilar membrane forms floor of scala media
- D. Cochlea is filled only with endolymph

Answer:



72. Select the odd one w.r.t. vestibular apparatus

A. Utricle

B. Cochlea

C. Saccule

D. Crista ampullaris

Answer:



73. Stereocilia of sensory cells of human ear come ine contact with elastic membrane called

A. Basilar membrane

- B. Tympanic membrane
- C. Tectorial membrane
- D. Reissner's membrane





74. Visual purple is found in

A. Bipolar cells

- B. Ganglionic cells
- C. Rods
- D. Cones





75. Outermost layer of human eye is

A. Choroid

B. Sclera

C. Retina

D. Ciliary body

Answer:

76. Structure that helps to maintain equal pressure on both sides of ear drum is

A. Oval window

B. External auditory meatus

C. Semicircular canal

D. Eustachian tube

Answer:

77. Hormone that regulates gene expression by interaction with genome through the hormone receptor complex is

A. TCT

B. Estrogen

C. Norepinephrine

D. Oxytocin

Answer:

78. All are features of hormones except

- A. They are non nutrient chemicals
- B. Released in trace amounts
- C. Transported through blood to act on

distant target cells

D. All are proteinaceous in nature

Answer:

79. Air borne odour molecules are detected in

A. Eye

B. Ear

C. Nose

D. Skin

Answer:



80. Lifespan

A. Is a specific trait of each organism

B. Is always correlated to the size of an organism

C. is about 60 minutes in E. coli

D. Of crow is more than parrot

Answer:

81. Select the correct match w.r.t. the vegetative propagules.

A. Sucker - Chrysanthemum

B. Bulbil - Onion

C. Offset - banana

D. Leaf bud - Agave

Answer:

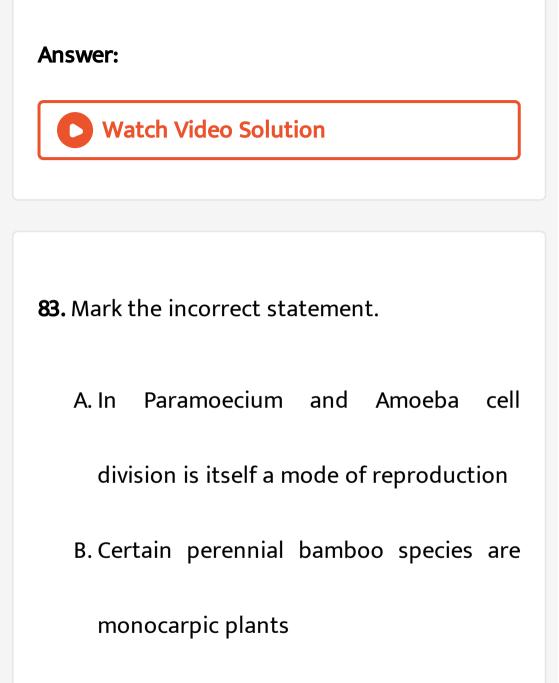
82. Plants like bryophytes, pteridophytes, gymnosperms and angiosperms are similar in (a) medium used for transfer of male gametes (b) producing morphologically district gametes (c) having internal fertilization (d) Formation of embryo

A. All (a), (b), (c), (d)

B. Only (b) and (c)

C. Only (a), (b) and (c)

D. Only (b), (c) and (d)



C. Wheat and carrot lack recovery

phase/inter flowering phase in their life

D. Cucurbits have staminate and pistillate

flowers on separate plants

Answer:

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84. Which of the given structures/modes of reproduction does not produce genetically similar individuals?

- A. Conidia of Penicillium
- B. Fusion of isogametes of Cladophora
- C. Eyes of potato
- D. Buds of yeast

Answer:

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85. For the common features between chara

and Marchantia are

(a) Dioecious,

(b) Flagellated antherozoids

(c) jacketed sex organs

(d) protogynous

(e) Female sex organ is nucule or oogonium

A. Only (a), (b) and (c)

B. Only (b) and (c)

C. Only (a) and (e)

D. Only (b), (c) and (d)

Answer:



86. Mark the odd one w.r.t. the post fertilisation events occurring in a flowering plant.

A. Embryo formation

B. Ovule develops into a seed

C. Gametogenesis

D. Ovary ripes into a fruit

Answer:

87. A typical angiospermic anther is (a) Bilobede (b) Dithecous (c) Tetragonal (d) Tetrasporangiate

A. Only (a), (b) and (d)

B. All (a),(b), (c) and (d)

C. Only (a) and (d)

D. Only (b) and (d)

Answer:

88. The cells of anther wall layer which nourish the developing pollen grains is related to all of the following features, except

A. Dense cytoplasm

B. Polyploid

C. Multinucleate

D. Low DNA content

Answer:



89. If a typical angiospermic anther has 25 microspore mother cells in its each sporangium, calculate the total number of microspore tetrads, pollen grains and male gametes respectively produced by this anther.

A. 25100200

B. 100, 400, 800

C. 100, 100, 400

D. 50, 200, 400

Answer:



90. Mark the statement which is not correct for pollen grains.

A. In majority of angiosperms, the cell with

spindle shaped nucleus and dense

cytoplasm is absent in pollen at the time

of dispersal

B. Pollens of carrot grass cause allergy C. They remain viable for variable period which depends upto some extent on surrounding temperature and humidity D. They can be stored at -196°C in pollen banks

Answer:

91. Which of the given functions is not performed by nucellus?

A. Megasporogenesis

B. Storage of reserve food

C. Can form embryo in mango

D. To protect the body of ovule

Answer:

92. The most common ovule found in 82% of angiosperms is not related to the feature such as

- A. Micropyle situated close to the hilum
- B. Body of ovule is at right angle to the

funicle

- C. Chalaza forms its base
- D. It is bitegmic generally

Answer:

93. Choose the statement which is correct for monosporic female gametophyte.

A. Unicelled egg apparatus is situated towards micropylar end.

B. Synergids have special cellular

thickening at the micropylar tip which

guides the entry of pollen tube

C. Out of the eight nuclei, only seven are

surrounded by cell wall

D. Central cell is uninucleate

Answer:

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94. Which of the following features promote the chances of cross pollination in plants? (a) Bud pollination (e) Protandry (b) Chasmogamy(f) Dioecy (c) Homogamy (g) Dichogamy (d) Cleistogamyx (h) Self incompatibility A. Only (a), (c), (f) and (h)

B. Only (e), (f), (g) and (h)

C. Only (b), (e), (f), (g) and (h)

D. Only (d), (f) and (g)

Answer:

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95. Plants like papaya and date palm show

A. Autogamy

B. Geitonogamy

C. Xenogamy

D. Cleistogamy

Answer:

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96. Select the characteristics of wheat and maize plants. (1) Colourful, fragrant flower (2) Presence of nectaries (3) Mucilage surrounded pollen (4) Feathery stigma (5) Light weight pollen (6) Well exposed stamen (7) Large sized

flower

A. Only (d), (e) and (f)

B. Only (a), (d), (e) and (f)

C. Only (a), (b), (c), (e) and (f)

D. Only (d), (e) and (g)

Answer:

97. Choose the odd one w.r.t. reward for insects in entomophily.

A. Nectar

B. Safe place for egg laying

C. Pollen grains

D. Fragrance

Answer:

98. Angiosperms differ from other plants of

plant kingdom in having

A. Syngamy

B. Triple fusion

C. Double fertilization

D. Both (2) and (3)

Answer:

99. If artificial hybridization is performed in maize, then which of the given steps will not be required?

(a) Selection of parents

(b) Emasculation

(c) Bagging

(d) Rebagging

A. Selection of parents

B. Emasculation

C. Bagging

D. Rebagging

Answer:

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100. Choose the correct match w.r.t. monocot embryo.

A. Coleoptile - Undifferentiated sheath like

structure

B. Coleorhiza - Hollow foliar structure

C. Epiblast - Remains of second cotyledon

D. Scutellum- Part of embryonal axis

Answer:



101. Nucellus is not completely consumed and

remains inside the seed of

A. Maize

B. Barley

C. Beet

D. Pea

Answer:



102. Read the given statements and select the option accordingly. (a) Apomictic embryos are genetically same and they can be called clones. (b) Apomictic seeds can be very useful in maintaining hybrid traits as they prevent seggregation of characters of the hybrid

variety.

A. Only (b) is false

B. Only (a) is false

C. Both (a) and (b) are false

D. Both (a) and (b) are true

Answer:

103. Some flowers of common pancy do not require pollinators for their pollination but still this property is not very useful for plants because

- A. Their yield is reduced
- B. Their flowers do not remain attractive
- C. They will have limited genetic diversity
- D. Their flowers will become nectarless

Answer:





104. Eichhornia and Vallisneria are common in

having

- A. Same type of pollinator
- B. Aquatic habitat
- C. Bright coloured, fragrant flowers
- D. Unwettable stigma

Answer:

105. Out of the seven characters of pea studied by Mandel, genes for three were situated on the chromosome number four (flower position, pod shape and plant height). Suppose if they were closely situated and were linked, then which of the following rule would not have been discovered or explained by Mendel?

A. Law of dominance

B. Law of seggregation

C. Law of independent assortment

D. Law of purity of gametes

Answer:

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106. Which of the given statements is true regarding Mendel's genetics experiments?

A. Mendel conducted his experiments from

1856 - 1876

B. He performed his experiments on hawkweed, lablab and garden pea but succeded only with garden pea C. Mendel selected 7 true-breeding pea plant varieties D. For the first time Mendel used the term

"pure-line".

Answer:

107. In how many of the following organisms sprem will decide the sex of progenies? (1) Grasshopper (2) Drosophila (3) Bird (4) Butterflies (5) Moths (6) Humans

A. 4

- $\mathsf{B.}\,3$
- $\mathsf{C.}\,2$
- **D**. 1

Answer:



108. Select the option with correct set of statements for Punnett square. (a) Developed by a British geneticist. (b) Used to calculate the probability of genotypes of offsprings. (c) Useful for monohybrid crosses only. (d) It is a mathematical formula which helps to calculate the types of gametes.

A. Only (a), (b) and (c)

B. Only (a) and (d)

C. Only (b) and (d)

D. Only (a) and (b)

Answer:

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109. Calculate the probability of obtaining a zygote with genotype AaBBccDD if a cross is made between individuals whose genotypes are aaBBcc DD and AAbbCCDD respectively.

A.
$$\left(\frac{1}{2}\right)$$

$B.\left(\frac{1}{4}\right)$ C.0 $D.\left(\frac{1}{8}\right)$

Answer:

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110. Which of the following pedigree charts does not represent inheritance of disorders like myotonic dystrophy?









Answer:



111. In garden pea, gene controlling starch synthesis is related to all of the given phenomenon, except

A. Pleiotropy

B. Incomplete dominance

- C. Condominance
- D. Complete dominance

Answer:

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112. Considering the inheritence of a disorder

like colourblindness,state the given

statements as True(T) or False(F) and choose

the correct option (A)Both affected mother and father can never have an unaffected children, (B) Both affected parents(mother and father) can have affected male child but unaffected female child, (C) If a child has disorder, then his or her grandparents must have the trait if not the disorder, (D) A marriage between an affected female and an unaffected male can produce all unaffected children.

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

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

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

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

Answer:



113. Select the correct match.

A. AB Blood group - Codominance

B. Hypostatic gene - Masks the action of

another gene

C. Flower colour in 4 O' clock plant -

Complete dominance

D. Gene for phenylalanine - Polygene

hydroxylase enzyme

Answer:

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114. A new born child was diagnosed with a genetic disorder. He showed some symptoms like (A) Furrowed and big wrinkled tongue (B)

Many loops on finger tips (C) Broad palm with palm crease On the basis of above features identify the chromosomes complement of the child.

A. 45 + XY

 $\mathsf{B.}\,44 + XXY$

 $\mathsf{C.}\,44 + XY$

 $\mathsf{D.}\,44 + XO$

Answer:



115. Mark the statement incorrect for chromosomal theory of inheritance.

A. Both chromosomes and genes retain

their number and individuality

throughout the life of an organism

B. Chromosome are carrier of Mendelian

factors which seggregate and assort

independently during meiosis

C. The two alleles of a gene pair, are

located on homologous sites of non-

homologous chromosomes

D. A gamete carries only one chromosome

of a type and one of two alleles of a trait

Answer:

116. What is the distance between genes 'y' (
body colour) and 'w' (eye colour) of
Drosophila?
(a) 98.7 cM
(b) 1.3 cM

(c) 62.8 cM

(d) 37.2 cM

A. 98.7cM

 $\mathsf{B}.\,1.3cM$

 $\mathsf{C.}\,62.8cM$

D. 37.2cM

Answer:

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117. Gene for 'hypertrichosis' passes from father to his sons only, such traits are known as

A. Sex limited traits

B. Sex influenced traits

C. Hologynic traits

D. Holandric traits

Answer:

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118. Mark the correct reason for sickle cell anaemia.

A. Absence or reduced synthesis of globin

chains

B. Lack of a liver enzyme

C. Transversion mutation in gene

controlling beta-chain synthesis

D. Lack of plasma thromboplasting.

Answer:

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119. The strongest mutagen among the following is

A. UV-A rays

B. X-rays

C. Light of wavelength between 400 700

nm

D. Infrared radiations

Answer:

120. Which of the given test crosses will produce maximum possible phenotypes in offsprings?

A. AABb x aabb

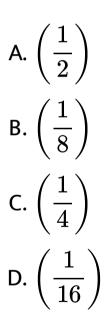
B. AABB x aabb

C. AaBb x aabb

D. AaBB x aabb

Answer:

121. A woman with blood group AB marries to a man with blood group B whose mother had blood group O. Calculate the probability of getting their first son with blood group AB.



Answer:



122. Out of the five different phenotypes of wheat kernel colour, which phenotype will be the most frequent in wheat population?

A. Deep red

B. Extreme red

C. White

D. Intermediate red

Answer:



123. Which among the given phenotypes is expressed in pure line condition only?

A. Terminal flowers in pea

B. Red eye in fruit fly

C. Normal wings in fruit fly

D. Green pod colour in pea

Answer:

124. Cryptorchidism i.e. failure of descent of testes in humans occurs due to

A. Hypersecretion of testosterone

B. Hyposecretion of testosterone

C. Hyposecretion of progesterone

D. Hyposecretion of estrogen

Answer:

125. Choose the incorrect match.

A. Bulbourethral gland - Lubrication of

penis

B. Urethral meatus - External opening of

penis

C. Uterus - Known as womb

D. Sertoli cells - Secrete androgens

Answer:

126. in case of human males inhibin inhibits the secretion of

A. LH

B. GnRH

C. FSH

D. Testosterone

Answer:

127. choose the correct sequence w.r.t human embryonic stages

A. Blastocyst rarr Gastrula rarr Morula

B. Gastrula rarr Blastocyst rarr Morula

C. Morula rarr Blastocyst rarr Gastrula

D. Gastrula rarrMorula rarr Blastocyst

Answer:

128. Initiation of gastrulation in humans is

marked by formation of

A. Blastocoel

B. Primitive streak

C. Morula

D. Notochord

Answer:

129. The slow block to polyspermy

A. Triggers the movement of Ca(2+) fromcytosol to endoplasmic reticulumB. Describes fusion of egg and spermnuclei

C. Involves exocytosis of cortical granules into perivitelline space

D. Allows the fusion of more than one

sperm to egg's plasma membran





130. Genetic constitution of (22 + Y) found in

- A. Primary spematocyte
- B. Spermatozoa
- C. Primary oocyte
- D. Ootid





131. increase in concentration of which hormone determine the time of childbirth?

A. hCG

B. hPL

C. Cortisol

D. Progesterone

Answer:





132. which of the following hormone is not secreted by placenta?

A. Chorionic somatomammotropin

B. Chorionic thyrotropin

C. Human chorionic gonadotropin

D. Cortiso

Answer:

133. Select the correct match in relation to extra embryonic membranes and their origin.

A. Amnion- Only mesoderm

B. Chorion- Endoderm and mesoderm

C. Allantois- Ectoderm and mesoderm

D. Yolk sac- Mesoderm and endoderm

Answer:

134. Choose the odd one w.rt.LNG 20

A. Suppresses endometrial changes

B. Releases copper

C. Impairs implantation

D. Changes nature of cervical/mucus

Answer:

135. In a nonpregnant female, regression of

corpus luteum occurs due to fall in level of

A. Progesterone

B. Estrogen

C. hCG

D. LG

Answer:

136. Select odd one w.rt.barrier method of

contraception.

A. Condom

B. Vaut

C. Diaphragm

D. Combined pills

Answer:

137. IVF and ET represent and respectively Select the option that fills the blanks correctly.

A. In vivo fallopian transfer and embryo transfer

B. Intra vaginal fertilization and ejection

technique

C. In vitro fertilization and egg transfer

D. in vitro fertilization and embryo-transfer

Answer:





138. Mix of ova and sperms is placed in fallopian tube of infertile couple looking for parenthood in

A. GIFT

B. ZIFT

C. ICSI

D. IUI

Answer:



139. Longitudinal binary fission is found in

A. Amoeba

B. Paramecium

C. Planaria

D. Euglena

Answer:

140. Gemmule formation occurs in

A. Helminthes

B. Ctenophorans

C. Cnidarians

D. Poriferans

Answer:

141. Which of the following Sexually Transmitted Infection causative agent is incorrectly

A. Syphilis - Treponema pallidium

B. Genital herpes - HSV-2

C. Genital warts - Haemophilus ducrei

D. AIDS - HIV

Answer:

142. Which of the following is correctly matched event occurring during menstrual cycle?

A. Follicular phase - This phase starts with menstruation in ovary
B. Luteal phase - This phase occurs before

ovulation

C. Menstruation phase - Break down of

endometrium in uterus

D. Secretory phase - Formation of mucous

plug in cervix under the effect of

estrogen

Answer:

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143. Development of unfertilised egg into complete organism is known as __ (a) in honey bee __(b) are produced parthenogenetically and they produce gametes by __(c)

respectively. Select the option which fill the blanks correctly.

A. Polyembryony(a), workers (b), mitosis(c)

B. Homozygosity (a),queen bee(b)

,meiosis(c)

C. Parthenogenesis(a), drones (b), mitosis

(c)

D. Parthenogenesis(a), worker(b), meiosis(c)

Answer:

144. Chromosome number in meiocyte of housefly and chromosome number in gamete in fruit fly __ and __ respectively.

A. 12, 8

B. 4, 12

C. 12, 4

D. 16, 12

Answer:



145. Terminal method of family planning includes

- A. Emergency contraception
- B. Implants
- C. Chemical methods
- D. Surgical methods

Answer:

146. Saheli is a

A. Non-steroidal IUD

- B. Non-steroidal oral contraceptive pills
- C. Steroidal contraceptive
- D. Oral pill developed at NDRI, Lucknow

Answer:

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147. According to the 2011 census, the population growth rate in India was?

A. 3.7~%

 $\mathsf{B.}\,2\,\%$

C. 3~%

D. 2.7~%

Answer:

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148. Read the following statements regarding amniocentesis. Statement A : It is a test based on study of chromosomal pattern of embryonic cells in amniotic fluid to detect genetic disorder. Statement B: It is useful in detection of certain biochemical and enzymatic abnormalities. Choose the correct option.

- A. Both statements are incorrect
- B. Both statements are correct
- C. Statement A is incorrect

D. Statement B is incorrect

Answer:

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149. Select the organism in which thelytoky is observed.

A. Bees

B. Wasps

C. Turkey

D. Typhlina brahmina

Answer:

Watch Video Solution

150. All are medicated intrauterine devices except

A. Cu-T

B. Progestasert

C. Cu-7

D. Lippe's loop

Answer:

Watch Video Solution

151. Select the incorrect statement w.r.t. cleavage in humans

A. Slow and asynchronous

B. Nucleocytoplasmic ratio increases

C. Equal holoblastic and indeterminate

D. Unequal spiral and determinate

Answer:

Watch Video Solution

152. Government of India legalised MTP in the

year

A. 1971

B. 2001

C. 2011

D. 1951

Answer:

Watch Video Solution

153. The organisms which are considered as immortal is/are

A. Amoeba only

B. All unicellular organisms

C. Aphis

D. Periplaneta

Answer:

Watch Video Solution

154. Maximum life span is a characteristic of __(A) and life expectancy is the characteristic of a __(B) Select the option which fill the blanks correctly.

A. Species (A)-Population(B)

B. Population (A)- Species(B)

C. Genus (A) - Class(B)

D. Class(A)- Genus(B)

Answer:

Watch Video Solution

155. Select the odd one w.r.t. sexuality of organism.

A. Cockroach

B. Earthworm

C. Leech

D. Tapeworm

Answer:

Watch Video Solution

156. Combined pills called OCP contain a mixture of

A. GnRH and FSH

B. FSH and progesterone

C. Estrogen and progesterone

D. Estrogen and hCG

Answer:

Watch Video Solution

157. The vital link ensures continuity of species

between organisms of one generation and the

next is

A. Sperm

B. Ova

C. Zygote

D. Embryo

Answer:



158. Which among the following part of male reproductive system is not considered intratesticular genital duct?

A. Tubuli recti

B. Rete testis

C. Ductuli efferentes

D. Epididymis

Answer:

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159. Activation of sperms in female genital tract to facilitate fertilization is known as

A. Insemination

- **B.** Acrosomal reaction
- C. Capacitation
- **D.** Spermiation

Answer:

Watch Video Solution

160. Choose the odd one w.r.t. number.

A. Seminal vesicle

B. Prostate gland

C. Cowpers gland

D. Bartholin's gland

Answer:

Watch Video Solution

161. The first sign of growing foetus may be noticed by

A. Beating of heart

B. Development of limbs

C. Development of extenal genitalis

D. Development of eye lashes

Answer:

Watch Video Solution

162. Milk ejection hormone in a lactating mother is

A. Prolactin

B. Oxytocin

C. Progesterone

D. Estrogen

Answer:

Watch Video Solution

163. What is correct about hormones in a normal healthy pregnant woman?

A. hCG stimulates foetal ejection reflex
during parturition
B. High level of progesterone facilitate
implantation of embryo
C. High level of prolactin stimulates
implantation of zygote
D. High level of hCG is responsible for
persistence of Graafian follicle within
ovary





164. During cleavage in fertilized egg, which centriole of sperm is responsible for formation of astral rays?

- A. Proximal centriole
- B. Distal centriole
- C. Ring centriole
- D. Nebenkem





165. A wider region, called ampula is a part of

which of the following structures?

A. Mammary gland

B. Fallopian tube

C. Vas deferens

D. Testes

Answer:





166. Meiosis I in female gametogenesis is completed in

A. Primary oocyte in Graafian follicle

- B. Secondary oocyte in Graafian follicle
- C. Primary oocyte in tertiary follicle
- D. Secondary oocyte in secondary folicle

Answer:



167. A cellular layer made up of glycoproteins within Graafian follicle around ovum prevents ectopic pregnancy is

A. Corona radiata

B. Granulosa

C. Zona pellucida

D. Theca externa

Answer:

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168. Which among the given phenotypes is expressed in pure line condition only?

A. Terminal flowers in pea

B. Red eye in fruit fly

C. Normal wings in fruit fly

D. Green pod colour in pea

Answer:



169. Out of the five different phenotypes wheat kernel colour, which phenotype will be the most frequent in wheat population?

A. Deep red

B. Extreme red

C. White

D. Intermediate red

Answer:

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170. A woman with blood group AB marries to a man with blood group B whose mother had blood group O.Calculate the probability getting their first son with blood group AB.

A.
$$\frac{1}{2}$$

B. $\frac{1}{8}$
C. $\frac{1}{4}$
D. $\frac{1}{16}$

Answer:



171. Which of the given test crosses will produce maximum possible phenotypes in offsprings?

A. AABb × aabb

B. AABB × aabb

C. AaBb × aabb

D. AaBB × aabb





172. The strongest mutagen among the following is

A. UV - A rays

B. X - rays

C. Light of wavelength between 400 - 700

nm

D. Infared radiations





173. Mark the correct reason for sickle cell anaemia

A. Absence or reduced synthesis of globin chains

B. Lack of liver enzyme

C. Transverse mutation in gene controlling

beta-chain synthesis

D. Lack of plasma thromboplastin

Answer:

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174. Gene for 'hypertrichosis' passes from father to his sons only, such traits are known

as

- A. Sex limited traits
- B. Sex influenced traits
- C. Hologynic traits
- D. Holandric traits

Answer:



175. What is the distance between genes 'y' (body colour) and 'w' (eye colour) of Drosophila? A. 98.7 cM

 $\mathsf{B}.\,1.3\,\mathsf{cM}$

С. 62.8 сМ

 $\mathsf{D}.\,37.2~\mathsf{cM}$

Answer:



176. A new born child was diagnosed with a genetic disorder.He showed some symptoms like (A) Furrowed and big wrinkled tongue, (B)

Many loops on fingertips, (C) Broad palm with palm crease,On the basis of above features identify the chromosomes complement of the child

A. 45 + XY

B.44 + XXY

C. 44 + XY

D. 44 + XO

Answer:



177. Select the correct match

- A. AB Blood group Codominance
- B. Hypostatic gene Masks the action of

another gene

C. Flower colour in 4 O' clock plant -

Complete dominance

D. Gene for phenylalanine hydrosylase

enzyme - Polygene

Answer:



178. Considering the inheritence of a disorder like colourblindness, state the given statements as True(T) or False(F) and choose the correct option (A)Both affected mother and father can never have an unaffected children, (B) Both affected parents(mother and father) can have affected male child but unaffected female child, (C) If a child has

disorder, then his or her grandparents must have the trait if not the disorder, (D) A marriage between an affected female and an unaffected male can produce all unaffected children.

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

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

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

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

Answer:





179. In garden pea, gene controlling starch synthesis is related to all the given phenomena, except

A. Pleitropy

B. Incomplete dominance

C. Codominance

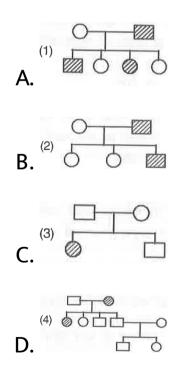
D. Complete dominance

Answer:





180. Which of the following pedigree charts does not represent inheritance of disorders like myotonic dystrophy?



Answer:



181. Calculate the probability of obtaining as zygote with genotype AaBBccDD if a cross is made between individuals whose genotypes are aaBBccDD and AAbbCCDD respectively,

A. (1/2)

B. (1/4)

D. (1/8)

Answer:

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182. Select the option with correct set of statements for Punnett square. (1) Developed by British geneticist. (2)Used to calculate the probability of genotypes offsprings. (3)Useful for monohybrid crosses only. (4) It is a

mathematical formula which helps to calculate

the types of gametes.

A. Only (1),(2) and (3)

B. Only (1) and (4)

C. Only (2) and (4)

D. Only (1) and (2)

Answer:

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183. In how many of the following organisms sprem will decide the sex of progenies? (1) Grasshopper (2) Drosophila (3) Bird (4) Butterflies (5) Moths (6) Humans

A. 4

- B. 3
- C. 2
- D. 1

Answer:





184. Which of the given statements is true regarding Mendel's genetics experiments?

A. Mendel conducted his experiments from 1856-1876

B. He performed his experiments on hawkweed, lablab and green pea but succeeded only with green pea C. Mendel selected 7 true breeding pea

plant varieties

D. For the first time Mendel used the term

"pure-line"

Answer:

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185. Out of the seven characters of pea studied

by Mandel, genes for three were situated on

the chromosome number four (flower

position, pod shape and plant height). Suppose if they were closely situated and were linked, then which of the following rule would not have been discovered or explained by Mendel?

A. Law all dominance

B. Law oh segregation

C. Law of independent assortment

D. Law of purity of gametes

Answer:



186. Eichhornia and Vallisneria are common in

having

- A. Same type of pollinator
- B. Aquatic habitat
- C. Bright colored, fragrant flowers
- D. Unwettable stigma

Answer:

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187. Some flowers of common pancy do not require pollinators for their pollination but still this property is not very useful for plants because

- A. Their yield as reduced
- B. Their flowers do not remain attractive
- C. They will have limited genetic diversity
- D. Their flowers will become nectarless

Answer:

188. Read the given statements and select the option accordingly. (1) Apomictic embryos are generally same and they can be called clones. (2) Apomictic seeds can be very useful in maintaining hybrid traits as they prevent segregation of characters of the hybrid variety.

A. Only (2) is false

B. Only (1) is false

C. Both (1) and (2) are false

D. Both (1) and (2) are true

Answer:

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189. Nucellus is not completely consumed and remains inside the seed of

A. Maize

B. Barley

C. Beet

D. Pea

Answer:

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190. Choose the correct match with respect to monocot embryo.

A. Coleoptile- Undifferentiated sheath like

structure

B. Coleorhiza- Hollow foliar structure

C. Epiblast- Remains all second cotyledon

D. Scutellum- Part of embryonal axis

Answer:



191. If artificial hybridization is performed in maize, then which of the given steps will not be required?

A. Selection of parents

B. Emasculation

C. Bagging

D. Rebagging

Answer:

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192. Angiosperms differ from other plans of

plant kingdom in having

A. Syngamy

B. Triple fusion

C. Double fertilization

D. Both (B) and (C)

Answer:

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193. Choose the old one with respect to reward for insects in entomophily.

A. Nectar

- B. Safe place for egg laying
- C. Pollen grains
- D. Fragrance

Answer:

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194. Select the characteristics of wheat and maize plants. (1) Colourful, fragrant flower (2) Presence of nectaries (3) Mucilage surrounded pollen (4) Feathery stigma (5) Light weight pollen (6) Well exposed stamen (7) Large sized

flower

A. Only (4),(5) and (6)

B. Only (1),(4),(5) and (6)

C. Only (1),(2),(3), (5) and (6)

D. Only (4),(5) and (7)

Answer:

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195. Plants like papaya and date palm show

A. Autogamy

B. Geitonogamy

C. Xenogamy

D. Cleistogamy

Answer:

Watch Video Solution

196. Which of the following features promote the chances of cross pollination in plants? (1) Bud pollination (2) Chasmogamy (3) Homogamy (4) Cleistogamy (5) Protandry (6) Dioecy (7) Dichogamy (8) Self incompatibility

A. Only (1),(3),(6) and (8)

B. Only (5),(6),(7) and (8)

C. Only (2),(5),(6),(7) and (8)

D. Only (4),(6) and (7)

Answer:

197. If a typical angiospermic anther has 25 microspore mother cells in its each sporangium, calculate the total number of microspore tetrads, pollen grains and male gametes respectively produced by this anther.

A. 25100200

B. 100400800

C. 100100400

D. 50200400

Answer:

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198. The cells of anther wall layer which nourish the developing pollen grains is related to all of the following features, except

A. dense cytoplasm

B. polyploid

C. multinucleate

D. low DNA content

Answer:

Watch Video Solution

199. A typical angiosperm anther is:

A. only (a), (b) and (d)

B. All (a),(b), (c) and (d)

C. only (a) and (d)

D. only (b) and (d)

Answer:

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200. Mark the odd one w.r.t the post fertilisation events occurring in a flowering plant

A. Embryo Formation

B. ovule develops into a seed

C. Gametogenesis

D. Ovary ripes into a fruit

Answer:



201. For the common features between chara

and Marchantia are

(a) Dioecious,

(b) Flagellated antherozoids

(c) jacketed sex organs

(d) protogynous

(e) Female sex organ is nucule or oogonium

A. only (a), (b) and (c)

B. only (b) and (c)

C. only (a) and (e)

D. only (b), (c) and (d)

Answer:

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202. which of the given structures /modes of reproduction does not produce genetically similar individuals?

A. Conidia of penicillum

B. Fusion of isogametes of Cladophora

C. Buds of Yeast

D. Eyes of potato

Answer:

Watch Video Solution

203. Mark the incorrect Statement

- A. in paramecium and Ameoba cell division
 - is itself a mode of reproduction
- B. Certain perennial bamboo species are monocarpic plants
- C. wheat and carrot lack recovery

phase/inter flowering phase in their life

D. Cucurbits have staminate and pistillate

flowers on separate plants

Answer:



204. Plants like bryophytes, pteridophytes, gymnosperms and angiosperms are similar in
(a) medium used for transfer of male gametes
(b) producing morphologically district gametes
(c) having internal fertilization

(d) Formation of embryo

A. All (a),(b),(c),(d)

B. Only (b) and (c)

C. Only (a),(b) and (c)

D. Only (b), (c) and (d)

Answer:

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205. select the correct match w.r.t the vegetative propagules.

A. Sucker - Chrysanthemum

B. Bulbil - Onion

C. Offset - Banana

D. Leaf bud - Agave

Answer:

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206. Lifespan

A. specific weight of each organism

B. is always carrelated to the size of an

organism

C. Is about 60 minutes in E coil

D. of crow is more than parrot

Answer:

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207. A cellular layer made up of glycoproteins

within Graafian follicle around ovum prevents

ectopic pregnancy is

- A. corona radiata
- B. granulosa
- C. Zona pellucida
- D. Theca extema

Answer:



208. Meiosis I in female gametogenesis is completed in

A. primary oocyte in Graafian follicle

- B. Secondary oocyte in Graafian follicle
- C. primary oocyte in tertiary follicle
- D. Secondary oocyte in secondary follicle

Answer:

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209. A wider region called ampulla is not a part of which of the following structures?

- A. Mammary gland
- B. fallopian tube
- C. vas deferens
- D. Testes

Answer:



210. During in fertilized egg which Centroile of

sperm is responsible for formation of astral

- A. proximal centriole
- B. distal centriole
- C. Ring Centriole
- D. Nebenkem

Answer:



211. what is correct about hormones in a normal healthy pregnant women?

A. hCG stimulates foetal ejection reflex
during parturition
B. High level of progesterone facilitate
implantation of embryo
C. High level of prolactin stimulates
implantation of zygote
D. High level of hCG is responsible for
persistence of Graafian follicle within
ovary





212. Milk ejection hormone in a lactating mother is

A. prolactin

B. Oxytocin

C. progresterone

D. Estrogen

Answer:





213. The first sign of growing foetus may be noticed by

A. beating of heart

B. development of limbs

C. development of external genitalis

D. Development of eye lashes

Answer:

214. choose the odd one wrt number

A. seminal vesicle

B. prostate gland

C. Cowper's gland

D. Bartholin's gland

Answer:

215. activation of sperms in female genital

tract to facilitate fertilization is known as

A. insemination

B. Acrosomal reaction

C. Capacitation

D. Spermiation

Answer:

216. Which among the following part of male reproductive system is not considered intratesticular genital duct?

A. Tubuli recti

B. Rete testic

C. Ductuli efferentes

D. Epididymis

Answer:

217. The vital link ensures continuity of species

between organisms of one generation and the

next is

A. Sperm

B. ova

C. zygote

D. Embryo

Answer:

218. Combined pills called OCP contain a mixture of

- A. GnRH and Fsh
- B. FSH and progesterone
- C. Estrogen and progesterone
- D. Estrogen and hCG

Answer:

219. Select the odd one w.r.t. sexuality of organism.

A. cockroach

B. Earthworm

C. leech

D. Tapewom

Answer:

220. Maximum life span is a characteristic of __(A) and life expectancy is the characteristic of a __(B) Select the option which fill the blanks correctly.

A. Species(A) Population (B)

B. Population (A) species (B)

C. Genus (A) Class(B)

D. Class (A) Genus (B)

Answer:





221. the organism which are considered as immortal is/are

A. Ameoba only

B. All unicellular organisms

C. Aphis

D. Periplaneta

Answer:

222. Government of India Legalized MTP in

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B. 2001

C. 2011

D. 1951

Answer:

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except

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B. Progestasert

C. Cu 7

D. Lippe's loop

Answer:

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observed

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B. Wasps

C. Turkey

D. Typhlina brahmina

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226. Read the following statements regarding amniocentesis. Statement A: It is a test based on study of chromosomal pattern of embryonic cells in amniotic fluid to detect genetic disorder. Statement B: It is useful in detection of certain biochemical and enzymatic abnormalities. Choose the correct option.

A. both statements are incorrect

B. both statements are correct

C. Statement A is incorrect

D. Statement B is incorrect

Answer:

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227. according to the 2011 census report the population growth rate was around

A. 0.037

B. 0.02

C. 0.03

D. 0.027

Answer:

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228. Saheli is

- A. Non-steroidal IUD
- B. non steroidal oral contraceptive pills
- C. sterodal contraceptive
- D. Oral pill developed at NDRI, Lucknow



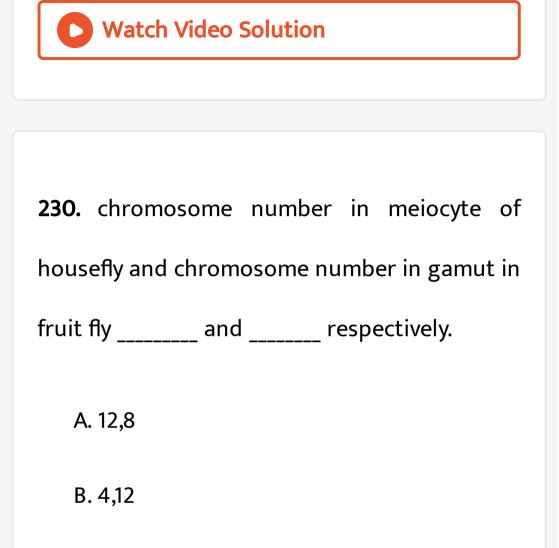


229. Terminal Methods of Family Planning is

A. emergency contraception

- B. implants
- C. chemical methods
- D. surgical methods





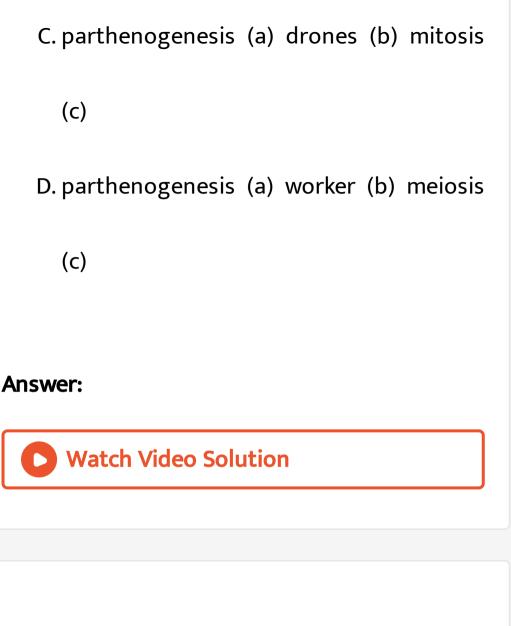
- C. 12,4
- D. 16,12



231. Development of unfertilised egg into complete organism is known as __ (a) in honey bee __(b) are produced parthenogenetically and they produce gametes by __(c) respectively. Select the option which fill the blanks correctly.

A. Polyembryony(a) workers (b) mitosis (c)

B. Homozygosity (a) Queen bee (b) meiosis



232. which of the following is correctly matched event occurring during menstrual cycle?

A. Follicular phase - This face stars with menstruation in ovary B. Luteal Phase - This phase occurs before ovulation C. menstruation phase- breakdown of endometrium in uterus D. Secretory phase- formation of mucous plug in cervix under the effect of estrogen

Answer:



233. Which of the following sexually transmitted infection (STI) and its causative agent is incorrectly matched?

- A. Syphilis Treponema pallidum
- B. Genital herpes HSV-2
- C. Genital warts- Haemophilus ducrei
- D. AIDS HIV





234. Gemmule formation occurs in

A. helminthes

B. ctenophorans

C. cnidarians

D. Poriferans

Answer:

235. Longitudinal binary fission is found in

A. Ameoba

B. Paramecium

C. planaria

D. euglena

Answer:

236. Mix of ova and sperms is placed in fallopian tube of infertile couple looking for parenthood in

A. GIFT

B. ZIFT

C. ICSI

D. IUI

Answer:



237. IVF and ET represent _____ and _____ respectively. Select the option that fills the blanks correctly

A. invivo fallopian transfer and embryo transfer.

B. intravaginal fertilization and ejection technique

C. in vitro fertilization and egg transfer

D. in vitro fertilization and embryo transfer





238. select odd one w.r.t. barrier method of contraception.

A. condom

B. volt

C. diaphragm

D. Combined pills





239. in a non pregnant female regression of Corpus luteum occurs due to fall in level of

A. progesterone

B. estrogen

C. hCG

D. LH





240. choose the odd one w.r.t. LNG 20.

- A. suppresses endometrial changes
- B. releases copper
- C. impairs implantation
- D. changes nature of cervical mucus

Answer:



241. select the correct match in relation to extra embryonic membranes and their origin in

- A. Amnion- only mesoderm
- B. Chorion Endoderm and mesoderm
- C. Allantois Ectoderm and Mesoderm
- D. Yolk sac mesodem and endoderm

Answer:



242. which of the following hormone is not secreted by placenta?

A. Chorionic somatomammotropin

B. Chorionic thyrotropin

C. human chorionic gonadotropin

D. cortisol







243. increase in concentration of which hormone determine the time of childbirth?

A. hCG

B. hPL

C. Cortisol

D. progesterone

Answer:

244. genetic constitution of (22+Y) found in

A. primary spematocyte

B. spematozoa

C. primary oocyte

D. Ootid

Answer:

245. The slow block to polyspermy

A. triggers the movement of Ca^{+2} form cytosis to endoplasmic reticulum B. describes fusion of egg and sperm nuclei C. involves exocytosis of cortical graneules into perivitelline space D. allows the fusion of more than one sperm to egg's plasma membrane.

Answer:

246. initiation of gastrulation in humans is marked by formation of

A. Blastocoel

B. Primitive streak

C. Morula

D. notochord

Answer:

247. choose the correct sequence w.r.t human embryonic stages

- A. Blastocyst-Gastrula-Morula
- B. Gastrula- Blastocyst- Morula
- C. Morula- Blastocyst -Gastrula
- D. Gastrula Morula- Blastocyst

Answer:



248. in case of human males inhibin inhibits

the secretion of

A. LH

B. GnRH

C. FSH

D. Testosterone

Answer:

249. choose the incorrect match

A. Bulbourethral gland - lubrication of

penis

B. Urethral meatus - external opening of

penis

C. Uterus - known as womb

D. sertoli cells - secret androgens

Answer:

250. cryptorchidism i.e. failure of descent of

testes in humans occurs due to

A. Hypersecretion of testosterone

B. hyposecretion of testosterone

C. hypersecretion of progesterone

D. hypersecretion of estrogen

Answer:

251. Group of organisms in which cell wall froms two thin overlapping shells are

A. Responsible for bioluminescence

B. Chief producers of ocean

C. Prokaryotes

D. Heterotrophs

Answer:

252. Kingdom Protista brought together Chlamydomonas and chlorella with Paramoecium and Amoeba which were earlier placed in kingdoms

A. Monera and Animalia

B. Plantae and Monera

C. Plantae and Animalia

D. Monera and Fungi

Answer:





253. Whittaker did not classify the organisms into five kingdoms on the basis of

A. Cell structure

B. Evolutionary relationships

C. Thallus organization

D. Response to external stimulus

Answer:

254. How many of the following organisms possess membrane bound cell organelles and autotrophic mode of nutrition? (Nitrobacter, Chromatium, Methanococcus, Nostoc Euglena, Gonyaulax, Paramoecium, Yeast, Puccinia)

A. 5

B. 4

C. 2

D. 6

Answer:



255. The most common mode of asexual reproduction in bacteria

A. Occurs in unfavourable conditions

B. Is amitotic endospore formation

C. Is amitotic type of cell division

D. Does not involve DNA replication





256. Members of kingdom for Monera which do bb"not" have cell wall, are

A. Halophiles

B. PPLO

C. Anabaena

D. Photolithotrophs

Answer:



257. Organisms responsible for causing 'red tide' are also characterised by

A. Presence of stiff cellulosic plates

B. Presence of N_2 fixing heterocyst

C. Presence of two longitudinal flagella

D. Filamentous body made up of trichomes

Answer:

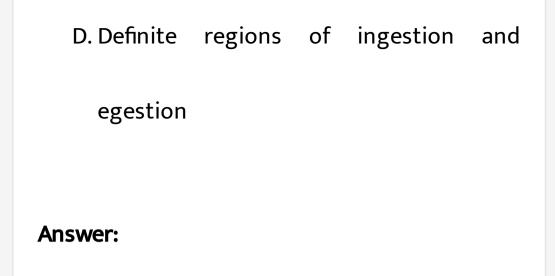


258. Ciliated protozoans differ from amoeboid and flagellated protozoans in having

A. Locomotory structure

B. single celled body

C. Heterotrophic mode of nutrition



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259. Under favourable conditions, smile moulds form underline A while under unfavourable conditions they form underline B. Complete the above statement by choosing the correct option for A and B.

- A. (A) Fruiting bodies (B) Spores
- B. (A) Plasmodium (B) Fruiting bodies
- C. (A) Fruiting bodies (B) Plasmodium
- D. (A) Spores (B) Plasmodium

Answer:

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260. Continuity of cytoplasm of the adjoining

cells in most of the club fungi is maintained by

- A. Simple central pore septum
- B. Dolipore septum
- C. Dissolution of septal wall
- D. Chitinous cell wall

Answer:

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261. Which of the given fungi are edible and form fruiting bodies also? (a) Morels (b) Truffles (c) Agaricus campestris (d)

Saccharomyces (e) Neurospora (f) Rhizopus (g)

Ustilago

- A. Only a, b, & d
- B. Only a, b, c, d & e
- C. All except d, e, f & g
- D. All except e, f & g

Answer:



262. Mark the correct statement for Albugo.

- A. Cause white rust in members of
 Brassicaceae
 B. Plasmogamy occurs by gametangial
 copulation
 - C. Cell wall is made up of fungal cellulose
 - D. Mycelium is coenocytic and separate

Answer:



263. Select the incorrect match.

A. Puccinia- Rust in wheat

B. Claviceps- Ergot in rye

C. Alternaria- Late blight of potato

D. Ustilago-Smut in wheat

Answer:

264. Which of the given fungi is not useful for

human beings?

A. Yeast

B. Neurospora

C. Penicillium

D. Rhizopus stolonifer

Answer:

265. Members regarded as "fungi imperfecti" are are related to all the following characters, except

- A. Decomposition of litter
- B. Formation of conidia
- C. Aseptate and branch mycelium
- D. Help in mineral recycling

Answer:

266. Viruses which are involved in transduction

usually have their genetic material as

A. ds RNA

B. ds DNA

C. ss DNA

D. ss RNA

Answer:

267. Which of the given statements is not true for viruses?

A. They are nucleoproteins where protein is

infectious in nature

B. They can be crystallized and crystals

consists largely of proteins

C. Virus means venom or poisonous fluid

D. A virus can never have both DNA and

RNA as its genetic material

Answer:



268. Viruses and viroids are similar in

A. Having capsid

B. Having only RNA as genetic material

C. Being infections in nature

D. Having RNA of same molecular weight

Answer:

269. Viruses could be crystallized, was shown by

A. D.J. Ivanowsky

B. M.W. Beijerinck

C. W.M. Stanley

D. T.O. Diener

Answer:

270. A common feature between TMV and HIV

is

- A. Presence of envelope
- B. Absence of capsid
- C. Having ss RNA as genetic material
- D. Having animals as host

Answer:

271. Read the following statement and state them as True (T) or False (F)
(1) Abundance of lichens in any area indicates that the area is highly SO2 polluted.
(2) Mycobiont partner of lichens is always heterotrophic.

(3) Body of lichens is made up of phycobionts only.

A. (1)T,(2)T,(3)F

B. (1)F,(2)T,(3)F

C. (1)F,(2)F,(3)F

D. (1)T,(2)F,(3)F

Answer:

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272. On the basis of sequences of 16s ribosomal RNA genes, Carl Woese placed all eukaryotes into how many domain (s) of life?

A. 3

B. 1

C. 2

D. 4

Answer:



273. Primitive bacteria which are found in guts

of ruminant animals,do not show/have,

a)Heterotrophic mode of nutrition,

b)Peptidoglycan in their cell wall,

c) Enzymes for aerobic respiration,

d) Abundance in marshy area,

e)Branched chain lipids in their cell membrane

A. only a,b,e

B. only a & b

C. only a,b & c

D. only b & d

Answer:

274. Still roots differ from prop roots in

- A. Providing support
- B. Being adventitious roots
- C. Arising from lower nodes of stem
- D. Arising from branches of stem

Answer:

275. Identify the odd one w.r.t. the type of modified root

A. Carrot

B. Turnip

C. Radish

D. Sweet potato

Answer:

276. Choose the plant which modifies its stem into fleshy cylindrical photosynthetic structure and is found in arid regions

A. Opuntia

B. Asparagus

C. Euphorbia

D. Australian Acacia

Answer:

277. Which of the following statements is not true for runner?

A. Internodes are longer

B. Helps plants to spread to new niches

C. Roots are present at nodes

D. Found in plants like grasses,

stawberry, jasmine

Answer:

278. In Venus-fly-trap, the leaf is modified into

special structures to

A. Store food

B. Trap insects

C. Provide support to the plant in climbing

D. Be defensive in nature

Answer:

279. Read the following charecters and mark the correct ones for family Fabaceae.a).Flowers are arranged in acropetal manner on floral axis,b)Flowers with radial symmetry,c)Hypogynous flower,d) Albuminous seeds,e)Monocarpellary ovary

A. only a & c

B. only a,c,d & e

C. only a,c & e

D. only a & b

Answer:



280. Cymose inflorescence is dissimilar to racemose inflorescence in

A. Having limited growth of the main

inflorescence axis

B. Having young flowers at top

C. Showing centripetal manner of opening

of flowers

D. Having acropetal of flowers

Answer:

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281. Margins of petals or sepals overlap each

other but not in a definite manner in

A. Asparagus

B. Cassia

C. China rose

D. Solanum nigrum

Answer:

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282. China rose,tomato and lemon all are

common in having

A. Polyadelphous stamens

- B. Zygomorphic flowers
- C. Axile placentation
- D. Parietal placentation

Answer:

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283. Which of the given feature is not related

to mustard?

A. Superior ovary

B. Variable length of filaments of stamens

C. Parietal placentation

D. Opposite phyllotaxy

Answer:

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284. a type of fruit in which entire inflorescence is Converted into a fruit is called

A. Aggregate fruit

- B. Composite Fruit
- C. Succulent fruit
- D. Dry indehiscent fruit

Answer:

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285. a small pore above the scar found on seed

coat is

A. micropyle

B. Hilum

C. plumule

D. Tegmen

Answer:

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286. how many of the given features are related to maize seed? a. Scutellum, b.Albuminous, c. Thick seed coat, d. pericarp fuses with seed coat

A. 3

 $\mathsf{B.4}$

 $\mathsf{C.}\,5$

 $\mathsf{D.}\,2$

Answer:



287. coconut is different from mangofruit in

A. having fibrous endocarp

B. its edible part

C. having this mesocarp

D. being a drupe

Answer:

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288. select the incorrect match

A. Green photosynthetic petiole- Australian

Acacia

B. real flats attached at tip of petiole- silk

cotton

C. papillonaceous corolla- Bean

D. Epi phyllous stamens- Brinjal

Answer:

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289. mark the odd one w.r.t. endosperm

A. food storing tissue

B. formed as a result of double fertilization

C. present in mature seeds of gram

D. Absent in orchids

Answer:

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290. which of the the following floral features

is not represected by symbols in floral formula

of a plant family

A. relative position of ovary w.r.t. other

parts

B. adhesion of staments

C. aestivation of calyx and Corolla

D. symmetry of flower

Answer:

291. which of the given plants of family favaceae is used as an ornamental plants?

A. Sesbania

B. Lupin

C. pea

D. Muliathi

Answer:

292. Conducting part of human respiratory

system does not include

A. Trachea

B. Pharynx

C. Bronchi

D. Alveoli

Answer:

293. Mark the odd one w.r.t. respiratory structure

A. Reptiles

B. Fishes

C. Birds

D. Mammals

Answer:

294. During inspiration in humans

A. contraction of diaghragm increases the

volume of thoracic cavity in antero posterior axis

B. Relaxation of diaphragm increases the thoracic volume in antero posterior axis

C. Contraction of internal intercostal muscles increases the volume of thoracic cavity in dorsoventral axis D. relaxation of internal intercostal muscles

decreases the volume of thoracic cavity

in dorsoventral axis

Answer:

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295. Thoracic cage of man is dorsally and ventrally formed of ----(A)___ and ___ (B)____ respectively select the option which fill the blanks correctly.

A. A= Vertebral column B= stemum

B. A= sternum B = vertebral column

C. A= Vertebral column B= ribs

D. A= ribs B= stemum

Answer:

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296. After normal expiration the volume of air

left in thr lungs is

A. TV+ERV

B. ERV+ FRC

C. Rv+ ERV

D. FRC - ERV

Answer:

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297. what is partial pressure of oxygen in systemic vein?

A. 40mmHg

B. 45mmHg

 $\mathsf{C.}\,95mmHg$

D. 104mmHg

Answer:

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298. The duration of atrial diastole in a normal

cardiac cycle is

A. 0.7s

 $\mathsf{B.}\,0.1s$

C.0.4s

 $D.\,0.3s$

Answer:

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299. Semilunar valves of heart open during

A. joint diastole

B. Atrial Systole

C. Ventricular Systole

D. Ventricular diastole

Answer:

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300. Mark the incorrect statement w.r.t. blood

vessels.

A. Arteries are non collapsible as they have

thick walls

B. Veins do not have valves in them

C. Most of thr veins corry deoxygenated

blood towards heart

D. Through capillaries, exchange of gases

and nutrients occurs between blood and

tissues

Answer:

301. during joint diastole

A. both the auricles receive oxygenated blood

B. tricuspid valve and mitral valve remain closed

C. semilunar valves open and dub sound is

heard

D. left atrium receives oxygenated blood

through pulmonary veins

Answer:

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302. which of the following component of conducting system of heart has maximum conduction velocity ?

A. SA node

B. bundle of His

C. Purkinje fibres

D. AV node

Answer:

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303. thoracic duct discharge lymph into _____.

select the option which fills the blank correctly

A. inferior Vena cava

B. right lymphatic duct

C. right subclavian vein

D. epinephrine

Answer:

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304. facultative reabsorption of water occurs

in the last part of nephron under the influence

of which hormone?

A. ANF

- B. Rennin
- C. ADH
- D. Epinephrine

Answer:



305. counter current mechanism between loop

of Henle and Vasa recta result in reabsorption

of water from

A. ascending limb of loop of Henie

B. distal convoluted part of nephron

C. PCT of nephron

D. descending limb of loop of Henle to the

ascending limb of Vasa recta

Answer:

306. Renin is an enzymatic hormone release by

juxta-glomerulus apparatus in response to

A. Low osmolarity of blood

B. Low blood pressure

C. High glomerular blood flow

D. High blood volume

Answer:

307. Micturition reflex is triggered by the activation of stretch receptor present on the wall of

A. Renal pelvis

B. Urinary bladder

C. Urethra

D. Ureter

Answer:

308. Which of the following does not occur in

response to decrease in blood volume?

A. Increase in angiotensin II

B. Increase in aldosterone secretion by

adrenal cortex

C. Increase tubular reabsorption of sodium

D. Increase secretion of atrial natriuretic

peptide from liver







309. If a person is suffering from water deficiency, maximum water reabsorption from filtrate occurs in

A. Distal convulated tubule

B. Descending limb of loop of Henle

C. Collection duct

D. proximal convulated tubule

Answer:





310. Uremia is a condition in whic the concentration of urea

A. Decrease in blood

B. Increase in blood

C. Increase in urine

D. Decrease in hepatic vein

Answer:

311. T wave in electrocardiogram represent

A. The return of ventricles from excited to

normal state

B. Depolarisation of ventrivles from normal

to excited state

C. Onset of atrial systole

D. Onset of atrial diastole

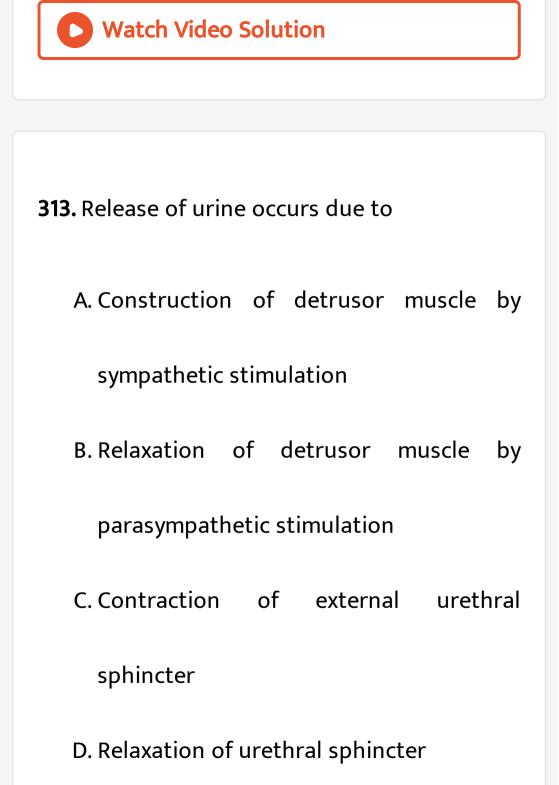
Answer:



312. When heart is not pumping blood effectively enough to meet the demand of body tissue, this condition is known as

- A. Myocardrial infection
- B. Cardiac arrest
- C. CAD
- D. Heart failure









314. The value of net filtration pressure in nephron is approximately

A. 30 mm of hg

B. 60 mm of hg

C. 10 mm of hg

D. 20 mm of hg

Answer:



315. Which of the following substances is reabsorbed almost completely in PCT of nephron by active process?

A. Water

B. Uric acid

C. Urea

D. Glucose





316. Select the correct statement w.r.t. human kidney

A. It is a retroperitoneal organ present in abdominal cavity

B. Right kidney is placed slighter higher in

position than the left kidney

C. It regulates the pH of blood by secretion

H^+ and HCO_3^- from the filtrate

D. Malphigian bodies of nephron always

found in renal medulla

Answer:

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317. Nitrogen byproduct of ornithine cycle is

found minimally in

A. Renal vein

B. Renal artery

C. Hepatic vein

D. Hepatic artery

Answer:

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318. in which of the following disease, does constriction of smooth muscle in the Wall of bronchioles occur?

A. Emphysema

B. asthma

C. pulmonary fibrosis

D. silicosis

Answer:



319. under normal physiological conditions 1000 ml of venous blood returns how much amount of O_2 approximately?

A. $5mlofO_2$

 $\mathsf{B.}\,4mlofO_2$

 $\mathsf{C.}\,14.4mlofO_2$

D. $144mlofO_2$

Answer:

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320. all the following factors are favourable for

association of O_2 with Hb except

A. high partial pressure of O_2

B. less H^+ ion concentration

C. low temperature

D. high partial pressure of CO_2

Answer:

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321. partial pressure of CO_2 in alveoli of lungs

A. equal to that in the deoxygenated blood

B. more than that in the deoxygenated blood C. less than that in the deoxygenated blood D. more than that of O_2 in alveoli

Answer:

322. mark the agranulocytes which perform phagocytosis in human blood.

A. lymphocytes

B. monocytes

C. basophils

D. neutrophils

Answer:

323. how many cellular membrane only have to

be crossed by oxygen to reach the pulmonary

capillaries from alveolar air?

A. one

B. two

C. three

D. four

Answer:

324. which of the following combination represent a plausibility of Erythroblastosis foetalis?

- A. Rh^- mother and Rh^- foetus
- B. Rh[^]- mother and Rh[^]+ foetus
- C. Rh^+ mother and Rh^+ foetus
- D. Rh⁺ mother and Rh⁻ foetus

Answer:



325. choose the correct option.

- A. Prothrombin rarr Thrombin
- B. Fibrinogen rarr Fibrin
- C. Fibrin rarr Fibrinogen
- D. Prothrombin rarr Thrombin

Answer:

326. another common to blood plasma of individual with blood group O^- an individual with blood group B^+ is/are

A. Anti-B

B. Anti-A

C. Both Anti-B and Anti-A

D. Anti-Rh

Answer:

327. the least abundant cell in the human blood among the following are

A. neutrophils

B. monocytes

C. erythrocytes

D. Eosinophils

Answer:

328. the volume of blood pumped out by the

two ventricles of human heart per minute is

A. 5L

 $\mathsf{B.}\,10L$

C. 15L

D. 20L

Answer:



329. mark the correct match w.r.t. respiratory volume and capacity

A. Residual volume : 500ml

B. Vital capacity : 2500 - 3500ml

C. inspiratory capacity : 2300 - 3000ml

D. functional residual capacity : 2300ml

Answer:

330. proximal convoluted tubule is lined by

A. simple columnar epithelium

- B. brush bordered cuboidal epithelium
- C. brush border columnar epithelium
- D. endothelium

Answer:



331. Time interval between the closure of semilunar valve and closure of AV valve is

 $\mathsf{A.}\,0.1s$

 $\mathsf{B.}\,0.3s$

 $\mathsf{C.}\,0.5s$

 $\mathsf{D}.\,0.8s$

Answer:

332. tunica interna of arteries and veins is

composed of

A. smooth muscle

B. involuntary muscle

C. epithelial tissue

D. striated muscle

Answer:

333. serum differs from blood is the

A. presence of fibrinogen

- B. absence of fibrinogen
- C. absence of albumin
- D. absence of gamma-globulin

Answer:

334. mark the incorrect statement w.r.t. human mature RBCs. A. lack nucleus and mitochondria B. have carbonic anhydrase C. transport CO_2 as carbaminohemoglobin D. undergo aerobic respiration during

strenuous exercise







335. choose the correct option w.r.t. first heart sound.

A. produced by opening of AV-valve

B. shorter duration than second heart

sound

C. known as DUB sound

D. produced during ventricular systole

Answer:



336. complete double circulation in the

characteristic features of all

A. amphibians

B. reptiles

C. fishes

D. mammals





337. Plants possessing leafy body without vascular tissue, presence of embryo stage in life cycle and archegonia as female sex organs but absense of seed formation may be grouped among all,except

A. Atracheophytes and non

spermatophytes

B. Embryophytes and archegoniates

C. Non-spermatophytes and non-vascular

cryotogams

D. Algae

Answer:

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338. Artificial system of classification as given

by Linnaeus is not acceptable nowadays

because

A. Closely related species where grouped
together as it was based on a few
characters
B. Vegetative and sexual characters were
given equal weightage
C. This system used gross su,perficial
morphological and intemal characters
and forms relationships between
different taxa

D. consideration of stamens, carpels and

other floral characters was not needed

Answer:



339. Choose the incorrect statement regarding

Bentham and Hooker's system of classification

of angiosperm

A. Based on natural affinities among the

organism

B. Only external feature of organisms were

considered

C. Is a natural system of classification

D. embryology, phytochemistry an anatomy

of plants were also considered as criteria

Answer:

340. Branch of taxonomy that uses chemical constiluents of plants to resolved confusion is

A. Numerical taxonomy

B. Cytotaxonomy

C. Chemotaxonomy

D. Alpha taxonomy

Answer:

341. system of classification proposed by

Engler and Prantl

A. Is based on evolutionary relationship

between various organism

B. believes that organism belonging to the

same taxa have a common ancestor

C. considered that the monocots are more

evolved than the dicots

D. both (1) & (2)

Answer:

342. If the number of chromosomes in the secondary nucleus of Zea maize is 20, what will be the number of chromosomes in PEC, polar nuclei, coleorhiza and aleurone layer respectively?

A. 60 ,20, 60, 60

B. 30,10,10, 30

C. 30, 10, 20, 20

D. 30, 10, 20, 30

Answer:

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343. How many of the given characters are associated with brown algae (Laminarin, Sulphated phycocolloids, Apical flagella, Fucoxanthin, Heterokont flagellation, chlorophyll c, Carotenoids, Pear-shaped zoospores, Oogonium, Pyriform gametes, Most

complex post- fertilization development)

A. Eight

B. Six

C. Seven

D. Five

Answer:

344. Choose the incorrect option w.r.t bryophytes

A. Haploid face in the fly cycle is more differentiated than that of algae B. Zygote divides by meiosis immediately C. The sporophyte is not free living and independent D. The spores germinate to produce gametophyte either directly or by A protoma stage

Answer:

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345. Which of these may not be an economic importance of bryophytes?

A. food for animals like birds

B. Peat formation used at fuel

C. in older times, Sphagnum was used in

place of absorbant cotton

D. Mosses along with lichens are the first

organism to colonise rocks

Answer:

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346. A chlorophycean number can be e separated from red alga in

A. Presence of one or more storage bodies in chloroplasts called pyrenoids B. Presence of phycocolloids in cell wall C. Absence of oogamous sexual reproduction D. Absence of endogenous motile asembali spores in life cycle

Answer:

347. Choose the Incorrect statement for red algae

A. Storage food is very similar to amylopectin and glycogen in structure B. They may occur in well- lighted regions close to surface of sea-water C. Absence of motile stage in life cycle D. Female sex organ is jacketed and multicellular

Answer:



348. The spread of living pteridophytes is limited and is restricted to narrow geographical region because

A. Gametophytes require cool, damp and

shady places to grow

B. Gametophytes is non-vascular and free

living

C. Gametophytes require warm, dry &

shady places to grow

D. Sporophytes need only moist shaded

areas in the hills

Answer:

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349. Which of the following statement for

racemose inflorescence is Incorrect?

A. Arrangement of flowers in a group is

centripetal

B. Flowers are borne in lateral fashion

C. Growing point or shoot apex terminates

in a flower

D. Formation of flowers is indefinite or

unrestricted

Answer:

350. Origin of seed habit or its foundation was laid on selaginella like pteridophytes but seed formation did not occur because of

A. In situ development of female gametophytes B. Absence of precocious development of microgametophyte C. Absence of integumented megasporangium

D. Dependence on water for pollination

Answer:



351. Select the wrong statement for gymnosperms.

A. Include medium sized or tall trees and

shrubs of perennial habit

B. Ovules remain exposed, both before and

after fertilization

C. All the members of gymnosperms have

mycorrhizal roots

D. Leaves are well adapted to withstand

extremes of temperature, humidity and

wind

Answer:

352. Gymnosperms differ from non-vascular embryophytes in

A. Possessing meiosis to form haploid spores that rise to gemetophyte B. Absence of an independent free-living gametophytic stage in life cycle C. Presence of seeds without seed coat D. Possessing compactly arranged micro sporophylls to form female cones

Answer:



353. In which of the following plants, the margin of thalamus grows further upward completely enclosing the ovary and getting fused it and bears the sepals, petals and stamens above the ovary?

A. Coriander, Plum

B. Peach, Apple

C. Cucumber, Guava

D. Sunflower, Gulmohur

Answer:



354. Find the odd features w.r.t pinus.

A. Its plant body is monoecious

B. Shows sulphur shower

C. Never shows polyembryony

D. Pollens and seeds both are dispersed by

air

Answer:



355. Angiosperms are identified by

A. Presence of veins and veinlets in leaves

and transfusion tissue

B. Occurrence of diplontic life cycle with a

distinct independent haploid phase

C. Presence of 7- celled, 8- nucleated

megagametophyte in most of the

members

D. Presence of well developed embryo and

endosperm in seeds universally

Answer:

356. Select the correct matchp

A. Petunia(plant),Opposite (Phyllotaxy)

,

G_(2) (gynoecium)

B. Soyabean (Plant) Alternate(phyllotaxy)

G1(Gynoecium)

C. Mustard (Plant) Whorled (Phyllotaxy) G_2

(Gynoecium)

D. Aloe(Plant) Alternate(phyllotaxy) G_3

(gynoecium)

Answer:



357. Peculiar feature of angiosperms not found in any plant group is

A. fertilization with the help of pollen tube

B. maturation of ovules into seeds after

fertilization

C. formation of pericarp

D. development of zygote into embryo

Answer:

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358. Pollination in angiosperms is said to be indirect because

A. pollens land on stigma

B. pollens land directly on ovule

C. pollination occurs by various agencies

D. cross pollination is more common in

angiosperm

Answer:



359. Which of these algae exhibit the haplo-

diplontic life cycle?

A. fucus, ulothrix

B. ectocarpus, polysiphonia

C. volvox, Laminaria

D. Spirogyra, laminaria

Answer:



360. The main functions of the root system in

angiospermic plants is all, except

A. absorption of water and mineral from

the soil

B. provides proper anchorage to plants

C. synthesis of plant growth regulators

D. respiration and vegetative propagation

Answer:

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361. Region of maturation in a tap root

A. is situated distal to elongation zone

B. undergoes rapid cells elongation and

enlargement

C. gives rise to unicellular root hairs from

some of its epidermal cells

D. is the only water absorption region

Answer:

362. All are adventitious roots that provide extra mechanical support to the plants, except

A. Stilt root

B. Prop root

C. Climbing root

D. Hygroscopic root

Answer:

363. Expanded green petiole specialised for photosynthesis in some plants like Acacia auriculiformis is

A. Phylloclade

B. Phyllode

C. Cladode

D. Cladophyll

Answer:

364. Match the following columns.

Column-I a. stem tendrils b. thorns c. leaf tendrils

column-II (i) pumpkins (ii) citrus (iii) cucumber (iv) bougainvillea (v) peas (vi) grapevines

A. a(i,ii,vi), b(iii,iv), c(v)

B. a(i,iii,vi), b(ii,iv), c(v)

C. a(i,v), b(ii, iii), c(iv,vi)

D. a(iii,iv), b(i,ii,vi), c(v)

Answer:



365. Stems that spread to new niches but do not help to tide over the unfavourable conditions of growth i.e., perennation is found in

- A. grasses and strawberry
- B. ginger and turmeric
- C. potato and elephant food
- D. zaminkand and jerusalem artichoke

Answer:



366. Lateral branches orginating from the basal and uderground portion of the main stem that grows beneath the soil and then come ot obliquely upward and give rise to leafy shoot is

A. stolon

B. sucker

C. offset

D. runner

Answer:



367. Find out the incorrectly matched pair. a. Caryopsis - Wheat b. Capsule - Mustard c. Cypsela - Sunflower d. Berry - Tomato e. Silicula - Poppy A. a, c & e

B.b,e

C. b, d & e

D. a, b & e

Answer:

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368. Leaves get modified as spines and tendrils

for protection and climbing respectively in

- A. zizyphus and smilax
- B. cactus and pumpkin
- C. bougainvilleavillea and nepenthes
- D. opuntia and gloriosa

Answer:

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369. The inflorescence in which receptacle becomes cup shaped and consists single

naked female flower surrounded by many male

flowers is found in

A. poinsettia

B. fig

C. Indian basil

D. sunflower

Answer:

370. How many of the given plants have actinomorphic flowers? Radish, Tulip, Ashwagandha, Wheat, Lupin, Cassla, Canna, Asparagus, Lily, Datura, Mustard, Chilli, Tobbaco

A. seven

B. nine

C. six

D. eight

Answer:



371. Axile placentation is found in all except

A. tomato

B. China rose

C. lemon

D. dianthus

Answer:

372. Tetradynamous stamens

A. do not show difference in their lengths

B. have two outer short and fore in along

stamens

C. are exemplified by ocimum

D. have for outer short and two inner long

stamens

Answer:

373. The fruit which develops from monocarpellary superior ovary and possessing only one seed enclosed in hard endocarp is

A. berry

B. drupe

C. legumn

D. caryopsis

Answer:





374. Select the odd one w.r.t. aggregate fruit.

A. develops from a polycarpellary

apocarpous ovary

B. actually is an aggregate of simple fruits

C. always develops from many flowers

D. all fruitlets developed from carpels

together form an aggregate fruit

Answer:



375. Edible part in banana, almond and litchi

are respectively

A. mesocarp, seeds, aril

B. pericarp, seeds, thalamus

C. tesla, endosperm, aril

D. epicarp and mesocarp, seeds, aril

Answer:





376. Remains of nucleus in seeds known as perisperm is - and found in -

A. diploid, black paper

B. triploid, caster

C. haploid, coconut

D. diploid, mango

Answer:

377. Floral formula of an angiospermic family does not deal with

A. symmetry of flower

B. cohesion and adhesion of stamens

C. placentation in ovary

D. position of ovary w.r.t. other floral parts

Answer:

378. Select the common characters between solanaceae and liliaceae families. a. placentation in ovary b. persistent calyx c. number of stamens d. superior ovary e. endospermous seed

- A. a, c & d
- B. a, d & e
- C. c, d & e
- D. a, b & e

Answer:

379. How many of the given plants belong to fabaceae solanaceae and liliaceae families respectively? tribolium, colchicum, lupin gloriosa, oryza, groundnut, belladonna, indiagofera, tulip, sweet pea, ashwagandha

A. 5, 2, 3

B. 6, 2, 2

C. 4, 5, 4

D. 6, 4, 3

Answer:

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380. Read the following statements.

a. A group of similar cells along with intercellular substances performing a specific function form a tissue.

b. All members of kingdom animalia consists of only four basic type of tissues. c. When two or more organs perform a common function by their physical or chemical interaction that together form an organ system.

d. The organ stomach in humans has all four types of tissues. How many above statements are correct?

A. 3

B. 2

C. 1

D. 4





381. In epithelial tissue

A. cells are compactly packed with large

amounts of intercellular matrix

B.a free surface is present which faces

either a body fluid or the outside

environment

C. the tissue provides a covering or lining

for all parts of the body

D. the cells are always loosely packed with

little intracellular matrix

Answer:

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382. Match following columns and choose the

correct answer.

a.simple squamous epithelium(type of

epithelium)(column I)

b.simple cuboidal epithelium (type of epithelium)(column I)

c. simple ciliated epithelium (type of epithellim)(column I)

d. simple columnar epithellium(type of epithellim)(column I) .

(i) PCT, DCT(Location of epithellium)(column II)

(ii) Air sacs of lungs (Location of epithellium)(column II)

(iii) Stomach, intestine(Location of epithelium) (column II) (iv) Bronchioles, fallopian tube(Location of

epithelium)(column II).

A. a(ii),b(i),c(iii),d(iv)

B. a(i),b(ii),c(iii),d(iv)

C. a(ii),b(i),c(iv),d(iii)

D. a(iv), b(iii), c(i), d(ii)

Answer:

383. Which type of epithellium has limited role

in secretion and absorption?

A. simple epithellium

B. simple cuboidal epithellium

C. compound epithellium

D. simple columnar epithellium

Answer:

384. Read the following statements.

a. columnar or cuboidal cells get specialized for secretion and are called Glandular epithellium.

b. Exocrine Glands secrete muscus, saliva, milk, insulin enzymes etc.

c. Goblet cells are unicellular glands while salivary glands are multicellular glands.d. Tight junctions cement the neighbouring cells together. How many above statements are correct? B. 3

C. 4

D. 1

Answer:

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385. Find the correct option which includes connective tissue only.

A. cartilage, bone, salivary gland, blood

B. Tendon, ligament, Areolar tissue, blood

C. Ligament, Biceps, Goblet cells, Tendon

D. muscles, pancreas, liver, bone

Answer:

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386. All of the following are specialized

connective tissue except

A. Bone

B. Blood

C. Cartilage

D. Adipose tissue

Answer:

Watch Video Solution

387. following are the statements with some blanks. find the correct option which fiils blanks correctly. a. Fibres and fibroblasts are compactly packed in the __(i)__. b.__(ii)___

Which connect or attach one born to another. c. connective tissue are classified into ____(iii)____ types. d.___(iv)____ Is a fluid connective tissue.

A. (i) dense connective tissue, (ii) Tendon, (iii) Four, (iv) Lymph

B. (i) lose connective tissue, (ii) ligament,

(iii) three, (iv) blood

C. (i) dense connective tissue, (ii) ligament, (iii) three, (iv) blood. D. (i) loose connectivee tissue, (ii) tendon,

(iii) four, (iv) blood

Answer:



388. all the following structures have cartilage

except

A. tip of nose, outer ear joint.

B. between adjacent bones of the vertebral

column, limbs on adult.

C. nasal septum, hands inadult, thoracic

cage

D. heart, kidney, capillaries

Answer:

389. the tissue which exerts the greatest control over the body's responsiveness to changing conditions includes

A. neurons only

B. neurons , oligodendrocytes and

astrocytes only

C. neurons and astrocytes only

D. neurons , oligodendrocytes, astrocytes

and microglial cells.





390. Which of the following structure is not present in or on the head of cockroach?

A. compound eyes

B. Antennae

C. Ocellus

D. Pronotum

Answer:



391. The head of cockroach is formed by the fusion of six segments and shows great mobility in all directions due to a flexible neck. The neck is a short extension of

A. head

B. prothorax

C. mesothorax

D. metathorax

Answer:

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392. Which type of wings in cockroach are opaque, dark and leathery? a. forewings b.mesothoraic wings c. metathoracic wings d. prothoracic wings e. tegmina f. hindwings

A. a &b only

B. c, d & e only

C. a, b& e only

D. a, b & f only

Answer:

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393. How many of the below structures are paired and found in both male and female cockroach? (compound eye, mandible, labium, salivary gland, anal cerci, anal styles, alary

muscles, phallic gland, collaterial glands, proventriculus)

A. 8

B. 5

C. 4

D. 6

Answer:



394. Find the correct statement related to gizzard in cockroach.

A. the gizzard is followed by crop which is a

sac-like structure

B. gizzard has an outer layer of the circular

muscles and thick inner cuticle forming

six highly chitinous plate called teeth

C. gizzard is present between mesenteron

and ileum

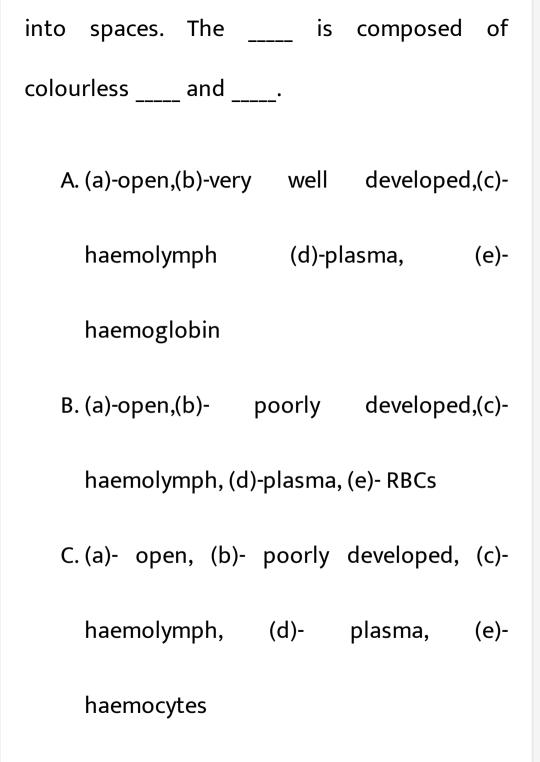
D. gizzards secretes maximun number of

digestive enzymes

Answer:



395. Following paragraph has some blanks. Find the correct option which fills blanks correctly. Blood vascular system of cockroach is ____ type. Blood vessels are ____ anf open



D. (a)- open, (b)- very well developed, (c)-

haemolymph, (d)- haemocytes, (e)-

plasma

Answer:

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396. excertion isperformed by malpighian tubules in cockroach and each tubule is lined by

A. Glandural cells only

B. Flagellar cells only

C. ciliated cells only

D. glandular and ciliated cells

Answer:

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397. in cockroach, brain is represented by

A. supra- pharyngeal ganglion

B. supra-oesophageal ganglion

C. sub-oesophageal ganglion

D. sub-pharyngeal ganglion

Answer:

Watch Video Solution

398. How many of the structures given below are found only in male cockroach are pairs? (testis, phallic, mushroom gland, vas deferens,

caudal style, collaterial gland, spermatheca,

oviduct, anal cercus)

A. 4

B. 3

C. 2

D. 1

Answer:



399. in male cockroach , sperms are stored in

A. vasa deferentia

B. seminal vesicles

C. ejaculatory duct

D. phallic gland

Answer:

400. Largest tergite of thorax of cockroach is connected through

A. sclerite of metathorax

B. Sclerite of mesothorax

C. Sclerite of abdominal segment

D. Sclerite of last abdominal segment

Answer:

401. The structure which is not related to metathoracic segment in cockroach is

A. Legs

B. wings

C. spiracles

D. anal cerci

Answer:

402. Grinding and incising region are associated with which mouth part of Periplaneta?

A. Maxilla

B. Labium

C. Mandible

D. Hypopharynx

Answer:

403. The blood concentration of glucose in a

normal healthy individual is

A. 4.5-5.0 m mol/L

B. 45-50 m mol/L

C. 10-20 mmol/L

D. 100-200 m mol/L

Answer:

404. Find the correct statements related to the living state.

A. Living organims work continuosly and

can afford to reach equilibrium

B. Living processes is a constant effort to

reach equilibrium

C. Without metabolism there cannot be a

living state

D. The living state is a equilibrium steady

state to be able to perform work

Answer:



405. Read the following statements a. Removal of CO2, from amino acid histidine converts it into an amine. b. Metabolites are converted into each other in a series of linked reactions called metabolic pathways. c. There is no uncatalyzed metabolic conversion in living systems. d. In living systems, the proteins with

catalyti power are known as enzymes. How

many above statements are correct?

A. 4

B. 3

C. 2

D. 1



406. Which of the following is not an example of an anabolic pathway?

A. Synthesis of cholesterol from acetic acid

B. Synthesis of a protein from amino acids

C. Synthesis of glycogen from glucose

D. Formation of lactic acid from glucose

Answer:

407. Which of the following structure of protein is/are present in a proteinaceous enzyme with a single polypeptide chain only?

A. Primary structure only

B. Secondary structure only

C. Tertiary structure only

D. Primary, secondary and tertiary structure

Answer:

408. $CO_2 + H_2O$ leftrightarrow H_2CO_3 In the absence of an enzyme, this above reaction is A. Very slow, about 2000 molecules of H_2CO_3 being formed in a minute B. Very slow, about 200 molecules of H_2CO_3 being formed in an hour C. Very fast, 6,00,000 molecules of H_2CO_3 being formed in a second

D. Very fast, such that 10 million molecules

of H_2CO_3 are being formed in a minute

Answer:

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409. Which is not correct about enzyme activity?

A. An obligatory formation of an 'ES' complex

B. A new structure of the substrate called transition state structure is formed C. If product is at high energy level than substrate, the reaction is exothermic D. Enzymes bring down activation energy, make the transition of 'S' to 'P' more easy.

Answer:

410. Prosthetic groups are __(a)__ compound and are distinguished from other __(b)__ in that they are__(c)__ bound to the__(d)__.

A. (a) organic (b) coenzyme (c) loosely (d)

holoenzyme

B. (a) inorganic, (b) cofactor, (c) loosely, (d)

apoenzyme

C. (a) organic, (b) cofactor, (c) tightly, (d) holoenzyme

D. (a) organic, (b) cofactor, (c) tightly, (d)

apoenzyme

Answer:



411. Bond not hydrolysed by class III enzyme is

A. Ester bond

- B. Disulfide bond
- C. Peptide bond

D. Glycosidic bond

Answer:

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412. The enzymes that catalyse removal of groups from substrates by mechanisms other than hydrolysis leaving double bonds belong to class

A. Dehydrogenases

B. Transferases

C. Hydrolases

D. Lyases

Answer:

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413. The effect of competitive inhibitors can be

overcome by

A. Raising the concentration of the

substrate

B. Raising the concentration of the enzyme

C. Raising the concentration of inhibitor

D. Raising the concentration of non-

competitive inhibitors

Answer:

414. Match the following columns and choose the correct answer. (a) Serine(Column I)(ii) (amminoacid) (i) Y(Column II) (one letter abbriviation) (b) Cystine(Column l)(amminoacid) (ii) C(Column II) (one letter abbriviation)(c) Thyrosine(Column I)(amminoacid)(iii) S(Column II) (one letter abbriviation)(d) Glutamic acid(Column l)(amminoacid)(iv) E(Column II) (one letter abbriviation) Code

A. a(i), b(ii), c(iv), d(i)

B. a(iv), b(ii), c(i), d(iii)

C. a(ii), b(ii), c(i), d(iv)

D. a(i), b(ii), c(ii), d(iv)

Answer:

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415. Find the correct option related to secondary metabolite

A. Insulin

B. Glycogen

C. Starch

D. Chitin

Answer:

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416. Esters of fatty acid with higher molecular

weight monohydric alcohols lacking

phosphate groups are known as

A. Lecithin

- B. Phospholipids
- C. Waxes
- D. Glycolipids

Answer:



417. Which of the following is not an essential

fatty acid with 18 carbons?

A. Linolenic acid

B. Arachidonic acid

C. Oleic acid

D. Linoleic acid

Answer:

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418. The correct nomenclature of ATP is

A. Adenosine-2'-triphosphate

- B. Adenosine-3'-triphosphate
- C. Adenosine-4'-triphosphate
- D. Adenosine-5-triphosphate

Answer:

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419. In nucleoside of DNA, C-1 of 2'-deoxyribose

is linked to____of pyrimidine or to____of

purine by a glycosidic bond. of a purine by a

- A. N-1 and N-1 respectively
- B. N-1 and N-9 respectively
- C. N-9 and N-9 respectively
- D. N-9 and N-1 respectively

Answer:

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420. Match the column-| with column-II and find the correct match a. Lipid(Column I) (Average composition of cell component) (i) 5-

7(Column II) (% of the total cellular mass) b. Protein(Column I) (Average composition of cell component) (ii)3(Column II) (%of the total cellular mass) c. Nucleic acids(Column I) (Average composition of cell component) (iii)5(Column II) (%of the total cellular mass) d. Carbohydrates(Column 1) (Average composition of cell component) (iv) 10-15(Column II) (% of the total cellular mass)

A. a(iii), b(iv), c(ii), d(i)

B. a(iv), b(iii), c(i), d(ii)

C. a(iii), b(iv), c(i), d(ii)

D. (4) a(i), b(ii), c(ii), d(iv)

Answer:

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421. Find the correct option related to secondary metabolite

A. Pigments - Anthocyanins, Carotenoids,

Ricin

B. Lectins – Concanavalin A, Cellulose,

Gums

C. Drugs - Vinblastin, Curcumin

D. Alkaloids – Morphine, Codeine, Lemon

grass oil

Answer:

422. How many of the given plants belong to Fabaceae, Solanaceae and Liliaceae families respectively?

- A. 5, 3, 3
- B. 6, 2, 2
- C. 4, 5, 4
- D. 6, 4, 3



423. Select the common characters between solanaceae and liliaceae families. a. placentation in ovary b. persistent calyx c. number of stamens d. superior ovary e. endospermous seed

- A. a, c & d
- B. a, d & e
- C. c, d & e
- D. a, b & e



424. Floral formula of an angiospermic family

does not deal with

- A. Symmetry of flower
- B. Cohesion and adhesion of stamens
- C. Placentation in ovary
- D. Position of ovary w.r.t other floral parts





425. Remains of nucellus in seeds known as perisperm is_ and found in _.

A. Diploid, black, pepper

B. Triploid, castor

C. Haploid, coconut

D. Diploid, mango

Answer:

426. Edible part in banana, almond and litchi are respectively

A. Mesocarp, seeds, aril

B. Pericarp, seeds, thalamus

C. Testa, endosperm, aril

D. Epicarp and meso carp, seeds, aril

Answer:

427. Select the odd one w.r.t aggregate fruit

A. Develops from a polycarpellary

apocarpus ovary

B. Actually is an aggregate of simple fruits

C. Always develops from many flowers

D. All fruitlets develops from carpels

togather form an aggregate fruit

Answer:

428. The fruit which develops from monocarpellary superior ovary prossessing only one seed enclosed in hard endocarp is

A. Berry

B. Drupe

C. Legume

D. Caryopsis

Answer:

429. Tetradynamous stamens

- A. Do not show difference in their lengths
- B. Have two outer short and four inner

long stamens

- C. Are exemplified by Ocimum
- D. Have four outer short and two inner

long stamen



430. Axile placentation is found in all except

A. Tomato

B. China rose

C. Lemon

D. Dianthus

Answer:

431. How many of the given plants have actinomorphic flowers? Radish, Tulip, Ashwagandha, Wheat, Lupin, Cassla, Canna, Asparagus, Lily, Datura, Mustard, Chilli, Tobbaco

A. Seven

B. Nine

C. Six

D. Eight



432. The inflorescence in which receptacle becomes cup shaped and consist single naked female flower surrounded by many male flower is found in

A. Poinsettia

B. Fig

C. Indian basil

D. Sunflower

Answer:



433. Leaves get modified as spines and tendrils for protection and climbing respectively in

A. Zizyphus and Smilax

- B. Cactus and Pumpkin
- C. Bougainvillea and Nepenthes
- D. Opuntia and Gloriosa

Answer:



434. Find out the incorrectly matched pair. a Caryopsis- Wheat b. Capule - Mustard c. Cypsela - Sunflower d. Berry - Tomato e. Silicula - Poppy

A. a, c & e

B.b.e

C. b, d & e

D. a, b & e

Answer:

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435. Lateral branches orginating from the basal and uderground portion of the main stem that grows beneath the soil and then come ot obliquely upward and give rise to leafy shoot is

A. Stolon

B. Sucker

C. Offest

D. Runner

Answer:

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436. Stems that spread to new niches but do not help to tide over the unfavourable conditions of growth i.e., perennation is found

- A. Grasses and strawberry
- B. Ginger and turmeric
- C. Potato and elephent foot
- D. Zaminkand and jerusalem arthichoke

Answer:

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437. Match the follwig columns Column-I Column-II a. Stem tendrills (i) Pumpkins b. Thoms (ii) Citrus c. Leaf tendrills (iii) Cucumber

. (iv)Bougainvillea . (v) Peas . (vi) Grapevines

A. a(I, ii, vi), b(iii, iv), c(v)

B. a(I, iii, vi), b(ii, iv), c(v)

C. (i, v), b(ii, iii), c(iv, vi)

D. a(iii,iv), b(i, ii, vi), c(v)

Answer:

438. Expanded green petiole specialised for photosynthesis in some xerophytic plants like Acacia auriciformis

A. Phylloclade

B. Phyllode

C. Cladode

D. Cladophyll

Answer:

439. All are adventitious roots that provide extra mechanical support to the plants, except

A. Stilt root

B. Prop root

C. Climbing root

D. Hygroscopic root

Answer:

440. Region of maturation in tap root

A. Is situated distal to elongation zone

B. Undergoes rapid cells elongation and

enlargement

C. Gives rise to uncellular root hairs

fromsome of its epideermal cells

D. Is the only water absorption region

Answer:

441. The main functions of the root system in angiospermic plants is all, except

A. Absorption of water and minerals from

the soil

- B. Provides proper anchorage to plants
- C. Synthesis of plant growth regulators
- D. Resperation and vegetative propagation

Answer:



442. Which of these alage exhibit the haplodiplontic life cycle?

A. Fucus, Ulothrix

B. Ectocarpus, Polysiphonia

C. Volvox, Laminaria

D. Spirogyra, Lamininaria

Answer:

443. Pollination in angiosperms is said to be indirect because

A. Pollens land on stigma

B. Pollens land directly on ovule

C. Polination occurs by various agencies

D. Cross polination is more common in

angiosperms

Answer:



444. Peculiar feature of angiosperms not found in any plant group is

A. Fertilization with the help of pollen tube

B. Maturation of ovules into seeds after

fertilization

C. Formation of pericarp

D. Develpoment of zygote into embryo

Answer:

445. Angiosperm are identified by

A. Presence of veins and veinlets in leaves and transfusion tissue B. Occurance of diplontic life cycle with a distinct independent haploid phases C. Presence of 7-called, 8-nucleated megagametophyte in most of the members

D. Presence of well developed embryo and

endosperm in seeds universally

Answer:



446. Find the odd features w.r.t. pinus.

A. Its plant body is monoecious

B. Shows sulphur shower

C. Never shows polyembryony

D. Pollens and seeds both are dispersed by

air

Answer:



447. In which of the following plants, the margin of thalamus grows further upward completely enclosing the ovary and getting fused it and bears the sepals, petals and stamens above the ovary?

A. Coriander, Plum

B. Peach, Apple

C. Cucumber, Guava

D. Sunflower, Gulmohur

Answer:

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448. Gymnosperms differ from non-vascular embryophytes in

A. Prossesing meiosis to form haploid

spores that rise to gametophyte

B. Absence of an independent free-living

gametophytic stage in life

C. Presence of seeds without seed coat

D. Prossessing compactly arranged micro

sporophylls to form female cones

Answer:

449. Select the wrong statement for gymnosperms

A. Include medium sized or tall trees and

and shurbs of perinial habit

B. Ovules remain exposed, both before amd

after fertilization

C. All the mambers of gymnosperms have

mycorrhizal roots

D. Leaves are well adapted to withstand

extremes of temprature, humidity, and

wind

Answer:

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450. Origin of seed habit or its foundation was laid in Selaginella like pteridophytes but seed formation did not occur because of

A. In situ development of female gametophytes

B. Absence of precocious development of

microgametophyte

C. Absence of integumented

megasporangium

D. Dependence on water for pollination

Answer:

451. Which of the following statement for racemose inflorescence is incorrect?

A. Arrangement of flowers in a group is centripetal

B. Flowers are borne in lateral fashion

C. Growing point or shoot apex terminates

in a flower

D. Formaton of flowers is idefinite or unrestricted

Answer:



452. The spread of living pteridophytes is limited and is restricted to narrow geographical region because

A. Gametophytes require cool, damp and

shady places to grow

B. Gametophytes is non-vascular and free-

living

C. Gametophytes require warm, dry &

shady places to grow

D. Sporophytes need only moist shaded

areas in the hills

Answer:

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453. Chosse the incorrect statement for red

alage

A. Storage	food	is	very	simila	r to
amylopectin and glycogen in structure					
B. They may occur in well-lighted regions					
close to surface of sea-water					
C. Absence of motile stage in life cycle					
D. Female	sex oi	rgan	is	jacketed	and
muticellu	lar				

Answer:

454. A chlorophycean number can be e separated from red alga in

A. Presence of one more storage bodies in

chloroplsts called pyrenoids

B. Presence of phycocolloids in cell wall

C. Absence of oogamous sexual

reproduction

D. Absences of endogenous motile asexual

spores in life cycle

Answer:



455. Which of these may not be an economic importence of bryophytes?

A. Food for animals like bird

B. Peat formation used as fuel

C. In order time, Sphagnum was used in

place of abosobant cotton

D. Mosses along with lichens are the first

organisms to colonise rocks

Answer:

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456. Chosse the incorrect option w.r.t. bryophytes

A. Haploid phase in the life cycle is more

differentiated than that of algae

B. Zygote divides by meiosis immediately C. The sporophyte is not free-living and indepndent D. The spores germinate to produce gametophyte either directly or by a protonema stage **Answer:**

457. If the number of chromosomes in the secondary nucleus of Zea maize is 20, what will be the number of chromosomes in PEC, polar nuclei, coleorhiza and aleurone layer respectively?

A. 60, 20, 60, 60

B. 30, 10, 10, 30

C. 30,10,20,20

D. 30, 10, 20, 30

Answer:



458. system of classification proposed by Engler and Prantl

A. Is bases on evolutionary relationships between various organisms B. Believes that organisms belonging to same taxa have a common ancestor C. Cosidered that the monocots are more evolved than the dicots

D. Both (1) & (2)

Answer:

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459. Branch of taxonomy that uses chemical constituents of plants to resolve confusions is

A. Numerical taxonomy

B. cytotaxonomy

C. Chemotaxonomy

D. Alpha taxonomy

Answer:

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460. Choose the incorrect statement regarding Bentham and Hooker's system of classification of angiosperms

A. Based on natural affinites among the organisms

B. Only external feature of organisms were considered C. Is a natural system of claasification and D. Embryology, phytochemistry anatomy of plants were also considered as criteria

Answer:

461. Artificial system of classification as given by Linnaeus is not acceptable nowadays because

A. Closely related species were grouped together as it was based on a few charecter B. Vegetative and sexual characters were given equal weightage C. This system used gross superficial morphological and internal characters and forms relationships between

different taxa

D. Consideration of stamens, carpels and

other floral characters was not needed

Answer:

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462. Plants possessing leafy body without vascular tissue, presence of embryo stage in life cycle and archegonia as female sex organs

but absense of seed formation may be grouped among all,except

A. Atracheophytes and non-

spermatophytes

B. Embryophytes and archegoniates

C. Non-spermatophytes and non-vascular

cryptogams

D. Algae

Answer:

463. Find the correct option related to secondary metabolites

A. Pigments-

Anthpcyanins, Carotenoids, Ricin

B. Lectins-Concanavalin A,Cellulose,Gums

C. Drugs-Vinblastin,Curcumin

D. Alkaloids-Morphine,Codeine,Lemon grass

Answer:



464. In nucleoside of DNA, C-1 of 2'-deoxyribose is linked to____of pyrimidine or to____of purine by a glycosidic bond. of a purine by a

A. N-1 and N-1 respectively

B. N-1 and N-9 respectively

C. N-9 and N-9 respectively

D. N-9 and N-1 respectively





465. The correct nomenclature of ATP is

- A. Adenosine-2'-triphosphate
- B. Adenosine-3'-triphosphate
- C. Adenosine-4'-triphosphate
- D. Adenosine-5'-triphosphate



466. Which of the following is not an essential

fatty acid with 18 carbons?

A. Linolenic acid

B. Arachidonic acis

C. Oleic acid

D. Linoleic acid





467. Esters of fatty acid with higher molecular

weight monohydric alcohols lacking

phosphate groups are known as

A. Lecithin

B. Phospholipids

C. Waxes

D. Glycolipids





468. All of the following are examples of

storage polysaccharides except

A. Inulin

B. Glycogen

C. Starch

D. Chitin

Answer:

469. The effect of competitive inhibitors can be overcome by

A. Raising the concentration of the substrate

B. Raising the concentration of enzyme

C. Raising the concentration of inhibitor

D. Raising the consectration of noncomoetitive inhibitors

Answer:



470. The enzynes that catalyse removal of groups from substrates by mechanisms other than hydrolysis leaving double bonds belong to class

A. Dehydrogenesis

B. Transferases

C. Hydrolases

D. Lyases

Answer:

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471. Bond not hydrolised by class III enzyme is

A. Ester bond

- B. Disulfied bond
- C. Peptide bond
- D. Glycoside bond

Answer:



472. Prosthetic groups are __(a)__ compound and are distinguished from other __(b)__ in that they are__(c)__ bound to the__(d)__.

A. (a)organic, (b)coenzyme, (c)loosely, (d)

holoenzyme

B. (a)inorganic, (b)cofactor, (c)loosely,

(d)apoenzyme

C. (a)organic,

(b)cofactor,(c)tightly,

(d)holoenzyme

D. (a)organic,(b)cofactor,(c)tightly,

(d)apoenzyme

Answer:

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473. Which is not correct about enzyme activity?

A. An obligatory formation of an 'ES' complex B. A new structure of the substraye called transition state structure is formed C. If product is at high energy level than substrate, the reaction is exothermic D. Enzymes bring down activation energy, make the transition of 'S' to 'P' more easy



474. $CO_2 + H_2O \leftrightarrow H_2CO_3$. In the absence of an enzyme, this above reaction is

A. Very slow, about 2000 molecules of H_2CO_3 being formed in a minute B. Very slow, about 200 molecules of H_2CO_3 being formed in an hour C. Very fast, about 6, 00, 000 molecules of H_2CO_3 being formed in a second

D. Very fast such that, 10 million molecules

of H_2CO_3 are being formed in a minute.

Answer:



475. Which of the following structure of protein is/are present in a proteinaceous enzyme with a single polypeptide chain only?

A. Primary structure only

B. Secondary structure only

C. Tertiary structure only

D. Primary, secondary and tertiary structure

Answer:

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476. Which of the following is not an example

of an anabolic pathway?

A. Synthesis of cholesterol from acetic acid

B. Synthesis of a protein from amino acids

C. Synthesis of glycogen from glucose

D. Formation of lactic acid from glucose

Answer:

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477. Find the correct statements related to the

living state.

A. Living organisms work continuously and

can afford to reach equilibrium

B. Living process is a constant effort to

reach equilibrium.

C. Without metabolism there cannot be a

living state.

D. The living state is a equilibrium steady

state to be able to perform work.

Answer:

478. The blood concentration of glucose in a normal healthy individual is

A. 4.5-5.0 m mol/L

B. 45-50 m mol/L

 ${\rm C.}\,10-20~{\rm m}~{\rm mol/L}$

 ${\rm D.}\,100-200$ m mol/L

Answer:

479. Grinding and incising region are associated with which mouth part of Periplaneta?

A. Maxilla

B. Labium

C. mandible

D. Hypopharynx

Answer:

480. The structure which is not related to

metathoratic segment in cockroach is

A. Legs

B. Wings

C. Spiracles

D. Anal cerci

Answer:

481. Largest tergite of thorax of cockroach is

connected to

A. Sclerite of metathorax

B. Sclerite of mesthorax

C. Sclerite of 1st abdominal segment

D. Sclerite of last abdominal segment

Answer:

482. In male cockroach, sperms are stored in

A. Vasa deferentia

- **B.** Seminal vesicles
- C. Ejaculatory duct
- D. Phallic gland

Answer:

483. In cockroach, brain is represented by

A. Supra-pharyngeal ganglion

B. Supra-oesophageal ganglion

C. Sub-oesophageal ganglion

D. Sub-pharyngeal ganglion

Answer:

484. Excretion is perfomed by malpighian tubules in Cockroach and each tubule is lined by

- A. Glandular cells only
- B. Flageller cells only
- C. Ciliated cells only
- D. Glandular and ciliated cells

Answer:

485. Following paragraph has some blanks. Find the correct option which fills blanks correctly. Blood vascular system of cockroach is ____ type. Blood vessels are ____ anf open into spaces. The ____ is composed of colourless ____ and ____.

A. open, very well developed, haemolymph,

plasma, haemoglobin

B. open, poorly developed, heamolymph,

plasma, RBCs

C. open, poorly developed, heamolymph,

plasma, haemocytes

D. open, very well developed, heamolymph,

haemocytes,plasma

Answer:

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486. Find the correct statement related to

gizzard in cockroach.

A. The gizzard is followed by crop which is

a saclike structure

B. Gizzard has an outer layer of thick

circular muscles and thick inner cuticle

forming six highly chitinous plate called

teeth

C. Gizzard is present between mesenteron

and ileum

D. Gizzard secretes maximum of digestive

enzymes





487. How many of the below structures are paired and found female cockroach?

A. 8

B. 5

C. 4

D. 6

Answer:



488. Which type of wings in cockroach are opaque dark and leathery? (a) forewings (b) mesothoracic wings (c) Metathoracic wings (d) Prothoracic wings (e) tegmina (f) Hindwings

A. a & b only

B. a,b & e only

C. c,d & e only

D. a,b & f only

Answer:

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489. The head of cockroach is formed by the fusion of six segments and shows great mobility in all directions due to a flexible neck. The neck is a short extension of

A. head

B. prothorax

C. mesothorax

D. metathorax

Answer:

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490. Which of the following structure is not

present in or on the head of cockroach?

A. compound eyes

B. antennae

C. ocellus

D. pronotum

Answer:

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491. Which of the following tissue exerts the greatest control over the body's

responsiveness to changing conditions?

A. neurons	on	ly
------------	----	----

B. neurons,oligodendrocytes and

astrocytes only

C. neurons and astrocytes only

D. neurons, oligodendrocytes, astrocytes,

and microloglial cells

Answer:

492. All of the following structures have cartilage except

A. tip of nose,outer ear joint

B. between adjacent bones of the vertabral

column, limbs in adult

C. nasal septum, hands in adult, thoracic

cage

D. heart,kidney,capillaries



493. Following are the statements with some blanks. Find the correct option which fills blanks correctly

A. dense connective tissue,

tendon,four,lymph

B. looose connective tissue, ligament,

three,blood

C. dense	connective	tissue,	ligament,
three,blood			
D. loose	connective		tissue,
tendon,four,blood			
Answer:			
Vatch Video Solution			

494. All of the following are specialised conductive tissue except

A. bone

B. blood

C. cartilage

D. adipose tissue

Answer:

Watch Video Solution

495. Find the correct option which includes

connective tissue only

A. cartilage, bone, salivary gland, blood

B. tendon, ligament, areolar tissue, blood

C. ligament, biceps,goblet cells,tendon

D. muscles,pancreas,liver,bone

Answer:

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496. Read the following statements. a. Columner or cubial cells get specialised for secretion and are called glandular epithelium.

b. Exocrine glands secretes mucus , saliva , milk

, insulin , enzymes etc. c. Goblet cells are unicellular glands while salivary glands are multicellular glands. d. Tight junctions cement the neighbouring cells together. How many statements are correct?

 $\mathsf{A.}\,2$

B. 3

C. 4

D. 1





497. Which type of epithelium has limited role

in secretion and absorption?

A. Simple epithelium

- B. Simple cuboidial epithelium
- C. Compound epithelium
- D. Simple columner epithelium

Answer: B





498. In epithelial tissue

A. Cells are compactly packed with large amounts of intercellular matrix
B. A free surfaceis present which faces either a body fluid or the outside environment

C. The tissue provides a covering or lining for all parts of the body

D. The cells are always loosely packed with

little intracellular matrix

Answer: B

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499. Read the following statements.

 A group of similar cells along with intercellular substances performing a specific function form a tissue.

b. All members of kingdom animalia consist of

only four basic types of tissues.

c. When two or more organs perform a common function by their physical or chemical interaction, they together form an organ system.

d. The organ stomach in humans has all for types of tissues.

How many above statements are correct?

A. 3

 $\mathsf{B.}\,2$

C. 1

 $\mathsf{D.}\,4$

Answer: A

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500. The number of cells in mature female and male gametophyte in angiosperms is and respectively

A. 8, 1

B. 7,4

C. 7,3

D. 8,2

Answer:



501. To sustain animal visit, the flowers have to

provide rewards to the animals. The statement

is true for all except

A. Salvia

B. Yucca

C. Adansonia

D. Zea mays

Answer:

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502. Arrange the following terms in the correct developmental sequence in flowering plants... a. Sperms , b. Heart-shaped embryo , C.

Syngamy, d. Microspore mother cell, e. Sporic

meiosis, f. Globular embryo

```
A. e, d a, c, f, b
```

B. d, e, a, c, f, b

C. d, e, a, c, b, f

D. e, d, a, c, b, f

Answer:



503. Choose the odd one w.rt. Agamospermy.

A. Diplospory

B. Adventive embryony

C. Parthenocarpy

D. Apospory

Answer:

504. The most common mode of entry of

pollen tube into ovule is

A. Chalazogamy

B. Xenogarmy

C. Porogamy

D. Basigamy

Answer:

505. Pollen grains are able to tolerate extremes of temperature and desiccation as its exine is made of

A. Sporopollenin

B. Cellulose

C. Pectin

D. Callose

Answer:

506. How many of the following plants have endospermic seeds? Castor, Pea, Qrchids, Groundnut, Maize,Rice, Beans

A. Five

B. One

C. Three

D. Two

Answer:

507. The coconut water from tender coconut is endosperm and the surrounding white kernel is the endospem.

A. Cellula, free nuclear

B. Triploid, hemicellulosic

C. Free nuclear, cellular

D. Both (2) &(3)

Answer:

508. in vitro pollen germination in laboratory is

- A. Done by bagging and emasculation
- B. Used to produce new species
- C. Done on a glass slide containing a drop
 - of 30% Sugar solution with boric acid
- D. Called hanging drop method

Answer:



509. Integumented indehiscent megasporangium is also called in angiosperms.

A. Ovary

B. Stigma

C. Ovule

D. Carpel

Answer:

510. Consider the following statements... a. Tapetum is the inner most polyploid layer of anther wall, b. Microgametogenesis involves two mitotic divisions in angiosperms , C. Megagametogenesis involves free nuclear divisions to form the embryo sac, d. acellulosic bands are present in the ephemeral layer of anther wall

A. Only c is incorrect

B. a, b&d are incorrect

C. a & d are correct

D. a, b & c are correct

Answer:

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511. Select the odd one w.rt outbreeding devices.

A. Monocliny

B. Dichogamy

C. Dioecy

D. Self incompatibility

Answer:



512. In a typical Polygonum type of embryo sac

A. Wall formation occurs around seven

nuclei so that it becomes seven celled

B. Egg has chalazal vacuole

C. The largest cell becomes diploid just

prior to triple fusion

D. The egg apparatus lies at chalazal end

Answer:

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513. The egg apparatus lies at chalazal end Read the following statements and select the correct set of statements. a. Sexual reproduction is a slow and complex , process.

b. Apomixis always occurs without gamete formation. , C. Small sized organisms always have a shorter ife span. , d. Asexual mode of reproduction can occur through formation of specialised reproductive structures

A. a and b

B. b and d

C. c and d

D. a and d

Answer:





514. In how many of the following listed plants, there is a clear-cut distinction between vegetative, reproductive and senescent phases? Rice. Bamboo, Orange, Apple, Mango, Radish

A. Five

B. one

C. four

D. three





515. The progenitor of future generation in seed is called

A. Endosperm

B. Oosphere

C. Zygote

D. Embryo





516. Vegetative propogation by leaf buds is commonly seen in

A. Tamarind

B. Litchi

C. Bryophyllum

D. Mulberry





517. Select wrongly matched pair.

- A. Agave-Stolon
- B. Water hyacinth-Offset
- C. Penicillium-Conidia
- D. Banana-Rhizome

Answer:



518. Heterogametes are produced by

A. Spirogyra

B. Ulothrix

C. Cladophora

D. Fucus

Answer:

519. In Marchantia

A. The male sex organ produces non-motile

male gametes

B. The sex organs are produced on leafy

branches

C. Both sex organs are produced on

leafless stalk in the same gametophyte

D. The female sex organ is flask shaped and

called archegonium





520. In majority of algae

- A. Carrier of male gametes is pollen tube
- B. Zygote undergoes equational divisions

in embryogeny

- C. Internal fertilisation is observed
- D. Syngamy occurs in external medium





521. Mark the correctly matched pair

- A. Chenopodium Bronchial afflictions
- B. Cashew nut, coconut False fruits
- C. Amorphophallus Omithophily
- D. Phoenix dactylifera-Oldest seed viability





522. Quantitative problem of synthesising too

few β -globin chains is called

A. α -thalassemia

B. β -thalassemia

C. Sickle cell anaemia

D. PKU

Answer:



523. The sum total of all genotypes and phenotypes obtained in F2 generation of a test cross for a character controlled by three pairs of polygenes is

A. 14

 $\mathsf{B.}\,34$

 $\mathsf{C}.\,12$

D. 16

Answer:



524. When a tall plant with long sized starch grains (TTLL) is crossed with a dwarf plant with short starch grains (tl), the F, generation consists of tall plant with intermediate sized starch grains. What Would be the phenotypic ratio of tall plants and plants with long sized starch grains in F2 generation?

A. (12:4)

B.(9:4)

C. (12:12)

D. (9:12)

Answer:

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525. Cystic fibrosis in humans is

A. Common in Mongolians

B. An autosomal dominant trait

C. A chromosomal disorder

D. An autosomal recessive trait

Answer:

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526. Recombinant offspring in F_2 generation found in Morgan's experiment were 1.3

percent as the

-					
chromosome of Drosophila					
Đ					
obtained were 31.4%					
C. Both genes are showing independent					

D. More than one option is correct

Answer:

527. Match the columns and select correct option column-I column-II a. Downs's syndrome (i) Holandric trait b. Porcupine skin (ii) Autosomal recessive c. Alkaptonuria (iii) X-linked trait d. Haemophilia (iv) Trisomy

A. a(iv), b(i), c(ii), d(iii)

B. a(iii), b(iv), c(ii), d(iii)

C. a(iii), b(iv) c(iv) d(i)

D. a(i), b(ii), c(iii), d(iv)

Answer:



528. Chosse the odd option w.r.t. sickle cell anaemia.

- A. Its result of transvertion
- B. Heterozygous (HbA Hbs) are carrier of

the disease

- C. It is due to point mutation
- D. GTG in the coding strand is replaced by

Answer:



529. Thyrine dimer formation which disturbs DNA double hellix and DNA replication is a major mutagenic effect of which of the following mutagens?

A. UV-rays

B. Nitrous acid

C. Ionizing radiations

D. 5-Bromouracil

Answer:

530. (Chosse the odd statement w.r.t the given

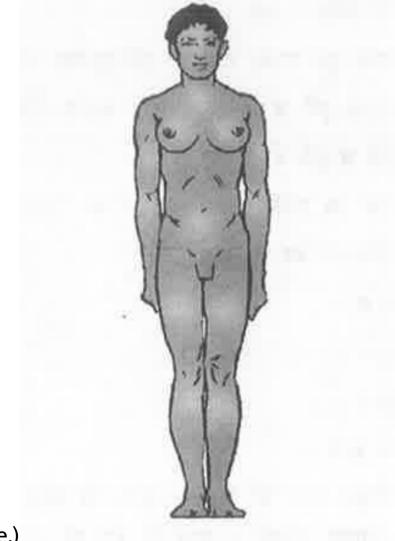


figure.)

A. It has overall masculine development

B. Gynaecomastia

C. The chromosome complement of the

individual is 44+ XXY

D. Absence of Barr body

Answer:

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531. Chosse the odd one w.r.t X-linked recessive

traits.

A. It	follows	criss-cross	pattern	of	
ininheritence					
B. It is exemplified by Duchenne's muscular					
dystrophy					
C. These are expressed only in males					
D. It	produce	s carrier	females	in	
heterozygous condition					

Answer:

532. Parallelism in the behaviour of genes and

chromosomes was proposed by

A. Sutton and Boveri

B. Jacob and Monad

C. Morgan

D. Bateson and punnett

Answer:

533. Normal visioned male marries a carrier female for colour blindness then a. All sons will be colour blind, daughter will be normal. b. 50% daughters are colour blind carriers. c. Boath the sons and daughter eill be colour blind. d. A male offspring has 50% chance of active disease. Find the correct option

A. b & c

B. b & d

C. a & c

D. a, b & c

Answer:

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534. If a cross is made between TtRrxTtRr in garden pea (w.r.t plant height and flower colour), what is the probability of the having individuals heterozygous for both traits?

A. 6.25~%

 $\mathsf{B.}\,50~\%$

C. 12.5 %

D. 25~%

Answer:

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535. F2 dihybrid phenotypic ratio 9:6:1 is exemplified by

A. Fruit shape in summer squash

B. Flower colour in Lathyrus

C. Comb character in fowl

D. Skin colour in human

Answer:

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536. Chosse wrongly match pair.

A. 2n-2- nullisomic

B. Gynandromorph - Loss of X-chromosome

C. AABbCCdd - Monohybrid

D. X-body - Sturtevant

Answer:



537. Read the following statements and chosse the correct option. (a) Test cross for completely linked genes shows recombinanats of more than 50% (b) The type of phenotypes produces by two comletly linked genes is

always greater than two

A. Both (a) & (b) are correct

B. Both (a) & (b) are incorrect

C. Only (a) is incorrect

D. Only (b) is incorrect

Answer:

538. Select the odd one w.r.t. Cytoplasmic inheritance.

- A. Controlled by plasma gene
- B. Extrachromosome inheritance
- C. Shows identical results in reciprocal

cross

D. Controlled by chloroplast DNA

Answer:



539. Chosse the odd statement w.r.t genic balance theory of sex determination proposed by C.B.Bridges

A. The fly with genotype AAA + XX` in a super-male

B. Super-females have X/A ratio greater

than one

C. The ratio between X/A determines the

sex of Drosophila

D.Y-chromosome plays a vital role in determinig the fertility of male Drosophilla

Answer:

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540. Bar eye character in Drosophila is due to

A. Pericentric inversion

B. Translocation

C. Interstitial deletion

D. Duplication

Answer:

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541. Select the incorrect match w.r.t. determination of sex.

A. Grasshoper - $XO, O \nearrow$

B. Butterflies - ZO, Q

C. Bird - ZW, Q

D. Dioscorea-XX, O 🏞

Answer:



542. Antibiotics are majority not helpful in the

treatment of

A. Genital herpes

B. Chalmydiasis

C. Syphilis

D. Gonorrhoea

Answer:

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543. Which of the following is not a contraceptive function of IUD?

A. Make uterus unsuitable for implantation

B. Pervents spread of hepatitis B

C. Increase phagocytosis of sperms within

uterus

D. Copper ioons released supress sperm

motility

Answer:

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544. The barrier methods of contraception

A. Cannot be reused

B. Are inserted by doctors or expert nurses

in female

C. Are available for males only and not for

females

D. Prevent ejacculated semen to entire into

female reproductive tract

Answer:

545. Which of the following hormone appears

in urine of female during her fertile peroid?

A. LH

B. Estrogen

C. hCG

D. FSH

Answer:

546. Which of the following diagnostic test is

performed for syphillis?

A. Mantoux Test

B. ELISA

C. VDRL (Venereal Disease Resarch

Laboratory)

D. Australian Antigen Test

Answer:

547. Find out the incorrect match

A. Oopherectomy - Surgical removal of

ovaries

B. Dysmenorrhoea - Painful mensuration

C. Menorrhagia - Excessive mensturation

D. Teratozoospermia _ Low sperm motility

Answer:

548. Which of the following is wrongly matched?

A. AIH- Semen collected from donor is artificially introduced into vagina or uterus of female
B. IVF - Fertilization takes place outside

female's body in a dish in a laboratory

C. ZIFT - Embryo upto 8 blastomeres is

transferred into another

D. GIFT - Ovum collected from doctor is

transferred ibto another female

Answer:



549. Which of the sexually transmitted disease

is caused by a protozoan and correctly matched with symptom?

A. Chlamyiasis - Carvicitis and urethritis

B. Genital warts - Hard outgrowths on the skin and mucosal surface of external genetalia

C. Trichomoniasis - Yellow vaginal discharge

with offensive odour and severe itching

D. Chancroid - Painful ulcer at genital organ

Answer:

550. A chidless couple is assiste to have a child

through a technique called ICSI which involves

- A. In-vivo fertilisation
- B. Placing of spermatozoon inside the egg

by a microscopic needle

C. Sperms are artificially inseminated into

uterus of female

D. More than one option correct







551. Vasectomy is terminal method of sterilization in which

A. The ovducts are interrupted by either

ligation or cuts

B. Inhibits spermatogenesis

C. Blocks transportation of sperms through

vas deferens

D. More than one option correct

Answer:



552. Given bellow are four statements with four blanks. Study them and find the suitable option which fill these blanks correctly. A. French drug RU486 (mifepristone) blocks the action of <u>(i)</u> B. India legalised medical termination of pregnancy in<u>(ii)</u> C. Acording to 2001 census report the population growth

rate of India was around (iii) D. The new oral contraceptive Saheli is chemically (iv) A. (i) (ii) (iii) (iv) Progesterone 1971 1.7% Centchroman B. (i) (ii) (iii) (iv) Estrogen 1971 2.1% Levenogesterel C. (i) (ii) (iii) (iv) Progesterone 1971 1.7% Levenogesterel D. (i) (ii) (iii) (iv) Estrogen 1951 2.7% Centrochran





553. Depo-Provera refers to :

A. An IUD

- B. Injectable contraceptive
- C. An implant
- D. A spermicide





554. Find out the incorrect match w.r.t. contraceptive device method and duration for which it is effective.

- A. Saheli pill one week
- B. Lactational amenorrhoea 6 years
- C. Norplant 5 years
- D. CuT-380A-7-10 years

Answer:



555. Just after parturition there is a phase of

amaenorrhoea because of

A. High progestrone level

B. High oxytocin level

C. High prolactin level

D. High FSH & LH level

Answer:





556. At present India in which stage of Demographic transition?

A. Birth rate and deth rate bothare less

B. Population is declining

C. Birth rate is more than death rate

D. Birth rate is less than death rate

Answer:

557. Which of the following statement is incorrect w.r.t amniocentesis?

A. It can even detect structural developmental anomalies like congenital heart defects B. It can be done in the early part of second trimester of pregnancy C. Used for prental diagnosis of chromosomal abnormalities

D. Approximately 20 ml of amniotic fluid is

aspirated which contains foetal skin cell

Answer:



558. Which of the following is not a measure

to control over population?

A. Promoting the fact that more children in

a family means more income

B. Incentives given to couples with small

families

C. Raising of the age of marrige

D. Motivate for using various contraceptive

methods to have smaller families

Answer:

559. Which of the following is not a the possible ill-effect of use of contraceptive devices?

A. Breast cancer

B. Nausea and abdominal pain

C. Proper space between two children plan

D. Irregular menstrual bleeding

Answer:

560. Medical termination of pregnancy (MTP) is performed

A. Where continuation of pregnancy is

harmful to mother or foetus

B. To get rid of unwanted pregnecy due to

casual unprotected intercourse

C. To get rid of female foetus

D. More than one option correct

Answer:





561. Find the correct statement.

A. STDs may lead to infertility and even

cancer

- B. Genital warts is cused by herpes simplex virus II
- C. The inccidence of genital herpes is more common in age group of 5-10 years

D. Hepatitis B, genital herpes and HIV

infections are complete,y curable if

detected early and treated properly

Answer:

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562. Among the following most dangerous STD

is caused by

A. Neisseria gonorrhoeae

B. Hepatitis B virus

C. Teponema pallidum

D. Human immuno deficiency virus

Answer:

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563. In neonate there is change in respiratory and circulatory system. The switch over is intiated by

A. Dopamine

B. Nitric oxide

C. Nitrous oxide

D. Gamma amino butyric acid

Answer:

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564. Select the correct set of organs derived

from mesoderm.

A. Notochord, adrenal cortex, spleen

B. Pineal gland, skeleton, blood

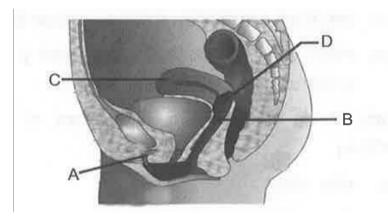
C. Dermis of skin, heart, adrenal medulla

D. Sclera of eye, dermis of skin, linning of

urinary bladder

Answer:

565. (Select the correct set of names for the parts labelled A, B, C and D in female reproductive system.)



A. A B C D Clitoris Vagina Uterus Cervix

B. A B C D Urethra Cervix Pubic symphysis

Rectum

C. A B C D Libia minora cervix Uterus Vagina

D. A B C D Libia majora Vagina Uterus Cervix

Answer:

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566. Regarding gastrulation the incorrect statement is

A. Formation of archenteron

B. disintegration of extra embryonic

membranes

C. morphogenetic movement of cells form

three primary germinal layers i.e

ectoderm mesoderm and endoderm

D. obliteration of blastocoel occurs

Answer:

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567. During parturition

progesterone ratio

B. prostaglandin level falls

C. relaxin promotes contraction of uterine

muscles

D. cervical mucus plug strengthens by

progesterone activity

Answer:

568. What is true about human placenta?

A. chorionic villi are arranged in two transverse bands B. yolk sac and chorion contribute in its formation C. placenta with all the six barriers between floetal and maternal blood D. A portion of uterine tissue called decidua is detached and passed out at

birth

Answer:

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569. Select the correct sequence of stages in ovarian cycle. a. Corpus luteum b. Graafian follicle c. Corpus albicans d. Corpus haemorrhagicum

A. b, a, d, c

B. b, d, c, a

C. a, d, c, b

D. b, d, a, c

Answer:

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570. Study and find the wrong function of the

reproductive structure.

A. Sertoli cells - Present in seminiferous tubules, secrete inhibin to control FSH secretion B. Vasa efferentia - The ciliated cells help in conducting sperms from epididymis to vas deferens C. Ampulla - Slightly swollen part of fallopian tube where fertilisation takes oplace

D. Vagina - Receives the male's penis during

copulation. Glands are absent

Answer:

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571. Which of the following is correct function

of the hormone secreted from placenta?

A. Relaxin -Constricts pubic symphysis

during parturition

B. Progesterone- Causes dissolution of
cervical mucus plug
C. hCG- Keeps corpus albicans active so
that it continuously produces
progesterone and estrogen
D. hCS - Development of mammary glands
during pregnancy

Answer:

572. Extraembryonic endoderm is involved in

formation of

A. Chorion

B. Amnion

C. Yolk sac

D. Both (1) & (2)

Answer:

573. Which of the following is not the function of epididymis in human male reproductive system?

A. Spematozoa gain motility

B. Nourishment and maturation of

spermatozoa takes place

C. Sperms get stored for few days

D. Conduct unejaculated sperms to

seminiferous tubules where they get

reabsorbed

Answer:



574. Suitable time for conception in women having menstrual cycle of 40 days is from

A. 23rd to 29th day

B. 14th to 20th day

C. 17th to 23rd day

D. 10th to 17th day





575. Egg of frog is

- A. Microlencithal and isolecithal
- B. Alecithal and cleidoic
- C. Macrolecithal and centrolecithal
- D. Telolecithal and mesolecithal





576. Secretion of prostate gland in human

male do not contain

A. Enzymes

B. Fructose

C. Prostaglandin

D. Citrate and calcium

Answer:



577. Find out the incorrect match w.r.t. different phases in menstrual cycle of human female(28 days)

A. Ovulatory phase(14th day) - Higher levels

of estrogen and LH causes explosive

growth of Graafian follicle which rises to

the surface of ovary and ruptures to

release ovum

B. Luteal phase(15 th - 28 th day) - LH
stimulates uterine glands to produve
increased amount of progesterone
C. Menstrual phase(1st - 5th day) -
Shedding of endometrium due to
reduced titre of both estrogen and
progesterone
D.Follicular phase (6th-13th day) - FSH
stimulates ovarian follicles to undergo

enlargement. Granulosa cells undergo

proliferation and secrete estrogen

Answer:

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578. Fraternal twins are developed from

A. Unfertilized egg

B. Asexual reproduction

C. Single fertilized egg

D. Distinct fertilized eggs

Answer:

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579. Internal fertilisation occurs in

- A. Porifers and Teleost fishes
- B. Mammals and Echinoderms
- C. Amphibians and Platyhelmnthes
- D. Aschelminthes and Reptiles





580. Select the incorrect statement.

A. Clone is group of all genetically similar

indivuduals formed through asexual

reproduction

B. In haploid organism gametes are formed

through meiosis

C. In Amoeba multiple fission is preceded

by encystment

D. Internal budding occurs in most

freshwater sponges to help in dispersal

as well as perennation

Answer:

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581. Find the incorrect match.

A. Number of chromosomes in gamete of dog - 19 B. Paedogenetic parthenogenesis Sporocyst and redia larva of Fasciola hepatica C. Monoecious animals - Sponges and earthworm

D. Polyoestrous animal- Horse and pig

Answer:

582. Condition in which tests do not descend into the scrotum due to deficient secretion of testosterone by foetal tests is

A. Cryptorchidism

B. Hydrocoele

C. ADAM

D. Inguinal hernia

Answer:





583. Which of the following statements is incorrect w.r.t. male reproductive system?

A. Sertoli cells secrete androgen binding

protein that concentrates testosterone

in the seminiferous tubules

B. The vas deferens loops over the urinary

bladder where it is joined by duct from

seminal vesicles to form the ejaculatory duct

C. The normal temperature of tests in the

scrotum is about $2\degree-2.5\degree C$ lower than

the internal body temperature

D. Tunica albuginea is a fibrous covering

surrounding the testis situated under

the tunica vasculosa

Answer:

584. All of the following could be the consequence of overpopulation except

A. Increased pollution

B. Poor hygienic conditions

C. Scarcity of food, shelter and clothing

D. Increased opportunities for males and

females





