BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 114

Biology

1. Tobacco contains nicotine which stimulates -----X------ to release ----------Y--------- into blood which increases blood pressure and rate of

heart beat.

Select t correct option for X and Y.

A. X - adrenal cortex gland, Y - adrenaline

B. X - adrenal medulla gland,Y - epinephrine

C. X - adrenal medulla gland,Y - nor - adrenaline

D. both (b) and (c)

Answer: D

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2. Match the following .

	'A'		'B'
(A)	Auxin	(I)	Ripening and maturity of fruits
(B)	Gibberellin	(II)	Differentiation of xylem elements
(C)	Cytokinin	(III)	Prevention of genetic and physiological dwarfism
(D)	Ethylene	(IV)	Found from tumour tissue of tobacco

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

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

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

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

Answer: C

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3. How many from the following are non - curable viral diseases in humans ?

(Syphilis, Genital herpes, chlamydiasis, Hepatitis - B,Gonorrhoea, Trichomoniasis, AIDS)

A. Four

B. Three

C. Two

D. Five

Answer: B

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4. Which hormone is obtained from herring sperm DNA ?

A. Cytokinin

B. Auxin

C. Giberlline

D. Ethylene

Answer: A

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5. Magnesium is an activator for

A. ribulose bis-phosphate carboxylase oxygenase

B. phosphoenol pyruvate carboxylase

C. alcohol dehydrogenase

D. more than one

Answer: D

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6. Select the correct match regarding vaccines and their associated diseases:

A. BCG vaccine: against tuberculosis/TB

B. DPT vaccine: against Diptheria, Pneumonia and Teatanus

C. Sabin vaccine: Injectable vaccine against Polio

D. All of the above

Answer: A

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7. The rate of respiration depends upon the

A. quantity of protoplasm in cell

B. quanlity of protoplasm in cell

C. both (a) and (b)

D. None of these

Answer: C

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8. Read the following and select the incorrect statements:

A. The placenta acts as a permanent endocrine tissue and produces several hormones.

B. During pregnancy levels of cortisol,

prolactin, thyroxine, and estrogen hormones also Increase several folds in maternal blood.

C. The second meiotic division of secondary spermatocyte in females is unequal and results in the formation of a polar body.

D. The secondary follicle transforms into a tertiary follicle which is characterized by a fluid - filled cavity called the antrum.

A. B & D only

B. A & c only

C. A & B only

D. A, B & C

Answer: C

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9. In Hexose monophosphate shunt, the number of CO_2 molecules evolved is

A. same as in glycolysis

B. less than glycolysis

C. more than glycolysis

D. much lesser than glycolysis

Answer: C

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10. Match the following .

	Column-I		Column-II
A.	Capacitation of sperms	I.	Progesterone hormone
B.	Formation of corpus luteum	II.	Vagina of female
C.	Formation of cervical mucus plug	III.	Epididymis of male
D.	Functional motility of sperms	IV.	Luteinizing hormone

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

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

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

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

Answer: C

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11. Who domonstrated that photosynthesis is essentially a light-dependent reaction?

A. Cornelius van Niel

B. Julius van Sach

C. Ingenhousz

D. T.W. Engelmass

Answer: A

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12. During embryonic development in human, the first organ formed is

A. brain

B. kidney

C. limbs

D. heart

Answer: D

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13. Which of the following cell organelle is not present in plant cells but present in the animal cell?

A. Cell wall

B. Plastids

C. Central vacuole

D. Centrioles

Answer: D

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14. Detailed membrane structure was studied only after the advent of _____.

A. electron microscope in 1960

B. electron microscope in 1950

C. cell staining, 1960

D. cell staining , 1950

Answer: B

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15. Select the correct match from the following

:

A. Blue revolution : increased production of fishes

B. Silver evolution : Increased production of fresh water fishes

C. White evolution: increased production of milk and eggs

D. All of the above are correct

Answer: A

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

A. vertical zones

B. stratification

C. humification

D. succession

Answer: B

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17. A permanent method of birth control is

A. oral contraceptive pills

B. insertion of IUD

C. use of condoms

D. vasectomy

Answer: D

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18. In our biosphere diversity exists at the level of

A. species only

B. macromolecular level

C. cellular level

D. all of these

Answer: D

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19. Which of the following contraceptive method has least failure rate ?

A. Lactational amenorrhoea

B. Condom

C. Cervical cap

D. Implants

Answer: D

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20. Pith and cortex do not differentiate in

A. monocot stem

B. dicot stem

C. monocot root

D. dicot root

Answer: A

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21. Choose the correct statements :

I. Cartilaginous fish swims continously due to the presence of an air bladder.

II. Osteichthyes have four pairs of gills that are covered by an operculum.

III. The notochord is persistent throughout life in Chondrichthyes.

IV. Teeth of cartilaginous fishes are modified placoid scales.

A. Only (I) & (II) are correct

B. Only (II), (III) & (IV) are correct

C. Only (II) & (IV) are correct

D. All are correct

Answer: B

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22. Diversity shown by a single species at the genetic level over its distribution range is known as

A. species diversity

B. community diversity

C. ecological diversity

D. None of these

Answer: D

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23. Pollution is any undesirable change in

A. physical nature

B. chemical nature

C. biological nature

D. all of these

Answer: D

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24. Polyp form in Cnidaria is -

A. sessile and cylindrical in hydra

B. sessile and umbrella like in Aurelia

C. free living and cylindirical in Aurelia

D. free living and umbrella like in Hydra

Answer: A

25. In order to control the environmental pollution the government of India has passed which act?

A. Enviornment prevention act

B. Atmosphere protection act

C. Earth protection act

D. Environment protection act

Answer: D

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26. In human beings, the membrane of the erythrocyte has approximately _____(i)_____ protein and _____(ii)_____ lipids.

A. 50 , 50

B. 52, 48

C. 52, 40

D. None of these

Answer: C

27. Excess use of herbicides or pesticides has resulted in selection of .....X..... varienties in a much lesser timescale and is a result of

.....Y..... .

Select the correct option for X and Y.

A. X - resistant , Y - natural selection

B. X - mutant , Y - genetic drift

C. X - resistant , Y - anthropogenic action

D. both (a) and (c)

Answer: C

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28. The process by which hydrophilic molecule move across the membrane by proteins is known as

A. osmosis

B. facilitated diffusion

C. active transport

D. plasmolysis

Answer: B

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29. Which of the following is a wrong statement about organic evolution ?

A. Fitness is the end result of the ability to adapt and get selected by nature.

B. Natural selection and adaptive radiation are the two key concepts of Darwinian theory

C. When we describe the story of life on earth we treat evolution as a

consequence of a process called natural selection.

D. Nature selects for fitness based on characteristics which are inherited.

Answer: B

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30. Diffusion of a molecule from low concentration to the high concentration

A. can take place

B. can't take place

C. take place in presence of proteins

D. It is irrelevant

Answer: B

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31. Which of the following is the correct order of evolutionary history of man

A. Homo habilis $\rightarrow$ Homo erectus $\rightarrow$ Cromagnon man $\rightarrow$ Neanderthal man

B. Cromagnon man $\rightarrow$ Neanderthal man $\rightarrow$ Homo erectus $\rightarrow$ Homo habilis

C. Homo erectus $\rightarrow$ Homo habilis $\rightarrow$ Neanderthal man $\rightarrow$ Cromagnon man

D. Homo habilis $\rightarrow$ Homo erectus $\rightarrow$ Cromagnon man $\rightarrow$ Neanderthal man

Answer: D

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32. Reproduction is characteristic of living organisms . Which of these orgenisms do not reproduce by fragmentation ?

A. Unicellular algae

B. filamentous algae

C. portonema of mosses

D. flatworms

Answer: A

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33. The QRS comxplex in an ECG is not related to :

A. Ventricular contraction

B. A measure of determining the heartbeat

C. Stroke volume of the cardiac cycle

D. Ventricular repolarisation

Answer: D

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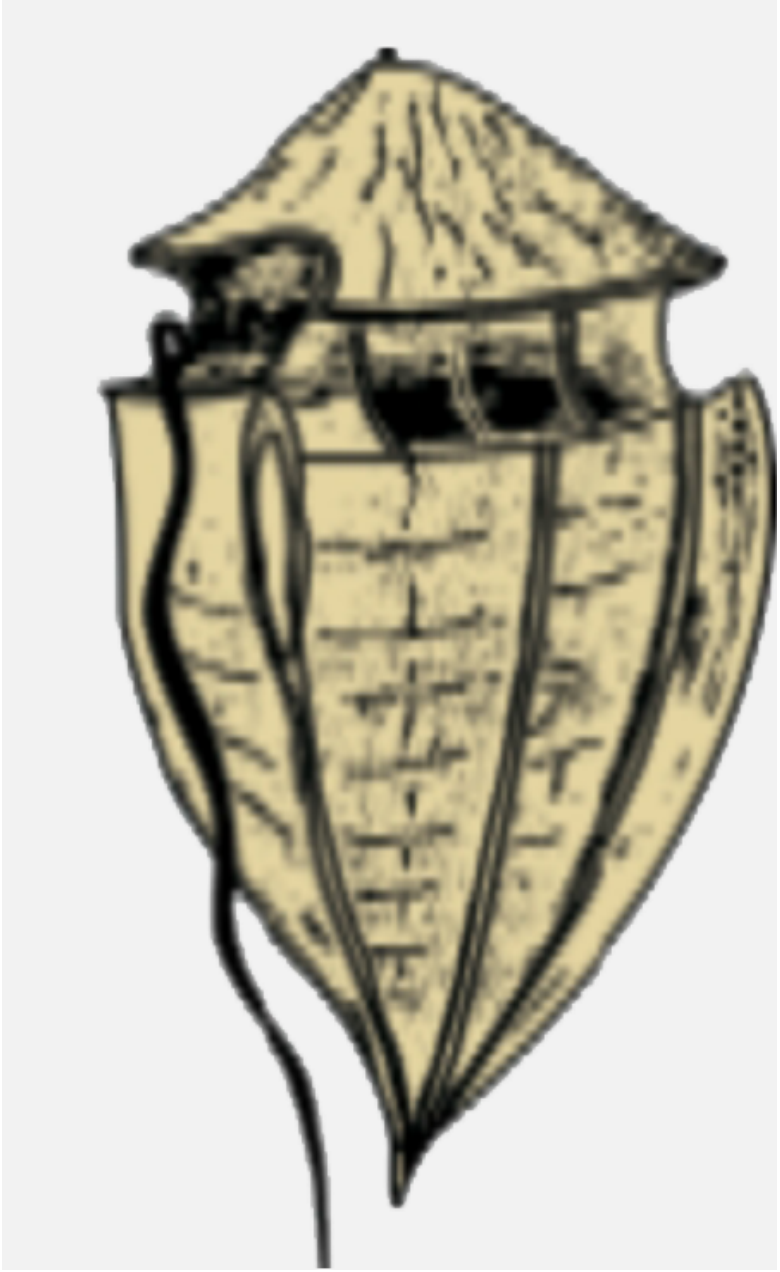
34. Choose the correct statement about the protist given in the diagram below .



A. These microscopic orgenisms float passively in water currents and are found in both marine and freshwater environments .

B. These protists are generally biflagellates , of which one lies longitudinally and the other transversely in a furrow between the wall plates.

C. These biflagellate protists are autotrophic in the sunglight and

heterotrophic in its absence .

D. Their cell wall has stiff cellulose plates on the outer surface and deposits of such is known as diatomaceous earth .

Answer: B

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35. The drawbacks or limitations of two-kingdom classification are

A. eukaryotes and prokaryotes .

B. photosynthetic and non-photosynthetic plants

C. unicellular and multicellular orgenisms .

D. all of the above

Answer: D

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36. The additional muscles used for forceful breathing in humans are :

A. Diaphragm and external intercostal muscles

B. Abdominal muscles and internal intercostal muscles

C. Diaphragm and abdominal muscles

D. External and internal intercostal muscles

Answer: B

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37. During the metagenesis of Obelia ,

A. polys produce medusas asexually and medusas from the polyps sexually .

B. polys produce medusas sexually and medusas from the polyps asexually .

C. both polyps and medusas are produced sexually by each other .

D. both polyps and medusas are produced asexually by each other .

Answer: A

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38. Which of the following is false about villi?

A. They are small finger-like folding in the small intestine .

B. They are supplied with a rich network of blood capillaries .

C. They are supplied with large lymph capillaries called lacteals .

D. Thye have numerous microvilli which given the appearance of ciliated epithelium.

Answer: D

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39. In lichens , the phycobiont and mycobiont are .....and ....., respectively.

A. heterotrophic, autotrophic

B. heterotrophic, heterotrophic

C. autotrophic, heterotrophic

D. autotrophic , autotrophic

Answer: C

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40. Which of the following is not correct ?

A. The blood vessel leading to the glomerulus is called the afferent arteriole.

B. Juxtamedullary nephrons, peritubular capillaries and Bowman's capsule all lie in the cortical region of the kidney .

C. Cortical nephrons have no or highly reduced vasa recta .

D. Vasa recta run parallel to the Henle's loop in juxtamedullary nephrons but the flow of blood inside them is in the opposite direction .

Answer: B

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41. Choose the false statement about parenchyma.

A. The cells of the parenchyma are generally isodimetric.

B. They are found in both polygonal and elongated shapes

C. Their walls are thick and made up of pectin

D. The functions of parenchyma include photosynthesis, storage and secretion

Answer: C

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42. Which of these conclusions drawn by Cornelius van Neil in his experiment on purple -Sulphur bacteria is correct ?

A. He inferred that the oxygen in plants comes from water proved using radioisotope techniques.

B. He demonstrated that photosynthesis is essentially a light-independent reaction

C. In purple sulphur bacteria, the oxidation products are oxygen and sulphates

D. Water is the hydrogen donor in purple sulphur bacteria

Answer: A

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43. Match the column-I with Column-II :

	Column - I		Column - II
(A)	Heart failure	(I)	Heart muscle is suddenly damaged by an inadequate blood supply
(B)	Cardiac arrest	(II)	Heart does not pump blood effectively enough to meet the need of the body
(C)	Heart attack	(III)	Atherosclerosis
(D)	Coronary artery disease	(IV)	The heart stops beating

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

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

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

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

Answer: C

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44. The passive movement of mineral ions into the apoplast occurs

A. at a rapid pace selectively through ion-channels

B. at the expenditure of metabolic energy

C. at a slow pace freely through the ion-channels

D. independently of the gradient

Answer: A

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45. Which of the following statement is/are incorrect about lymph ?

(i) Lymph is colourful as it has haemoglobin but no RBC

(ii) It contains specialised lymphocytes which are responsible for immunity of the body

(iii) Lymph is an important carrier for nutrients and harmones

(iv) Fats are absorbed through lymph in the lacteals present in the intestinal villi.

A. I and IV

B. III and IV

C. II and III

D. only IV

Answer: A

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46. Which of the following is not a nucleoside ?

A. Deoxydenosine

B. Cytidine

C. Riboflavin

D. Thymidine

Answer: C

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47. Palmitic and arachidonic acid have how many carbons excluding the carboxyl carbon?

A. 16,18

B. 16,20

C. 15,19

D. 15,20

Answer: C

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48. Inulin is a polymer of

A. Fructose

B. Sucrose

C. Glucose

D. Glycogen

Answer: A

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49. The total duration of the cardiac cycle is 0.8 seconds. If a person is suffering from fever and their heartbeat rate increases, then the duration of their cardiac cycle will

A. remain the same

B. increase

C. decrease

D. become irregular

Answer: C

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50. Which of these plants consist of a cymose inflorescence along with a syncarpous ovary?

A. Onion

B. Potato

C. Soyabean

D. Both (A) and (B)

Answer: D

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51. The structure present between the outer covering of endosperm and the embryo is called

A. aleurone layer

B. scutellum

C. seed coat

D. coteoptile

Answer: A

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52. Among the given names of hormones, how many of them show a physiological response by changing the gene expression after binding with DNA inside the target cells ?

Oxytocin, Prolactin, Thyroxine, Calcitonin, Vasopressin , Estrogen, FSH, Cortisol, Testosterone, Adrenaline, Aldosterone

A. Three

B. Five

C. Seven

D. Nine

Answer: B

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53. Given below some properties of transport mechanism. Which of these are true for the facilitated transport

(i) Require ATP energy

(ii) Highly selective

(iii) Uphill transport

(iv) Requires special membrane proteins

(v) Transport saturates

A. b, c and d

B. a, b and d

C. a, d and e

D. a, b and c

Answer: B

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54. Choose the set with the same type of fruits.

A. mango and coconut

B. banana and mango

C. strawberry and cherry

D. plum and blackberry

Answer: A

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55. Which region of the adrenal gland is responsible for the secretion of catecholamines?

A. zona glomerulosa

B. zona reticularis

C. medulla

D. zona fasciclata

Answer: C

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56. Which of the following is a water-pollinated plant?

A. water hyacinth

B. seagrass

C. water lily

D. common pansy

Answer: B

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57. Which of the following pituitary hormones does not directly control other endocrine glands or structures?

A. Thyroid - stimulating hormone (TSH)

B. Lutenizing hormone (LH)

C. Adrenocorticotrophic hormone (ACTH)

D. Growth hormone (GH)

Answer: D

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58. Which of these plants shows flowering only once in their life ?

A. Bamboo

B. Strobilanthus kunthiana

C. Wheat

D. Potato

Answer: A

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59. Which of the following breeds by crossing Bikaneri ewes and Merino rams?

A. Hisardale

B. Sahiwal

C. Leghorm

D. Hilsa

Answer: A

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60. Read the following statements carefully :

I. All locomotions are movements but all movements are not locomotions.

II. Cells of the human body can exhibit amoeboid, ciliary and muscular movements but not flagellar movement.

III. About 20 - 30 per cent of the body weight of a human adult is contributed by muscles.

IV. Striated visceral muscles are involved in the transportation of food through the digestive tract and gametes through the genital tract.

How many statements from the above are incorrect ?

A. Three

B. Four

C. Two

D. One

Answer: c

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61. State which of the following is not true.

A. Dominance is an autonomous feature of a gene or the product that it has information for.

B. A single gene product may produce only one effect.

C. Blood group AB is an example of codominance.

D. More than tow alleles exist in a population for a single gene.

A. C and D

B. A and C

C. B and D

D. A and B

Answer: D

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62. The joint found between the sternum and the ribs in humans are:

A. Saddle joint

B. Fibrous joint

C. Cartilaginous joint

D. Gliding joint

Answer: C

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63. If enough crosses are made between male flies of the genotype 'Aa' and the female flies of the genotype 'aa' to produce about 1000 offsprings. Which one of the following is the

most likely distribution of genotypes in the offsprings?

A. 250 Aa , 750 aa

B. 750 Aa : 250 aa

C. 243 AA : 517 Aa : 240 aa

D. 481 Aa : 519 aa

Answer: D

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64. An individual homozygous for gene a and b is cross with wild type and F_1 was back crossed with the double recessive. The appearance of the offspring is as follows

$++ \rightarrow 39$

$ab \rightarrow 31$

$a+ \rightarrow 17$

$+b \rightarrow 13$

Find out the distance between genes a and b .

A. 31

B. 30

C. 42.8

D. 3

Answer: B

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65. The nodes of Ranvier on medullated axon contains :

A. Both neurilemma and myelin sheath

B. No myelin sheath and no neurilemma

C. Neurilemma but no myelin sheath

D. Myelin sheath but no neurilemma

Answer: C

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66. Sex determination in most of the insects is:

A. XO type , female heterogamety

B. XO type, male heterogamety

C. ZW type, female heterogamety

D. ZW type, male heterogamety

Answer: B

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67. Select the incorrect statement.

A. The cerebral hemispheres are connected by a tract of nerve fibres called the corpus callosum.

B. The cerebrum wraps around a structure called thalamus, which is a major coordinating centre for sensory and motor signaling.

C. The hypothalamus contains a number of centres which control body temperature, urge for eating and drinking.

D. The cerebral cortex contains motor areas, sensory areas and large regions

that are both sensory and motor in function

Answer: D

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68. Select the correct statement with respect to phenylketonuria

A. The affected individual lacks an enzyme that converts the amino acid tyrosine to

phenylalanine

B. It is an inborn error of metabolism is also inherited as the autosomal recessive trait

C. Accumulation of tyrosine in brain results in mental retardation

D. Tyrosine is converted into phenylpyruvic acid and other derivatives

Answer: B

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69. Which of the following statement is true for the packaging of DNA in eukayotes?

A. DNA is packaged with a set of basic protein called histone.

B. Histone contain negatively charged amino acid in its side chain.

C. DNA packed with histone octamer are called nuclesome.

D. Nuclesome is further packed to form chromatin fibre.

A. A, B & C are true

B. A , B , C and D are true

C. B, C and D are true

D. None of these

Answer: D

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70. Which of the following is correct match regarding structures and their location in cockroach ?

A. Anal style : 10^{th} abdominal segment

B. Ovary : $4^{th} - 6^{th}$ abdominal segments

C. Testes : $2^{nd} - 6^{th}$ abdominal segments

D. Mushroom gland : $6^{th} - 7^{th}$ - abdominal segments

Answer: D

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71. Select the incorrect statement.

A. An mRNA has some additional sequence that are not translation and are referred to as untranslated region (UTR).

B. The ribosome acts as a catalyst (23S rRNA in bacteria is the enzyme - ribozyme) for the formation of a peptide bond.

C. The ribosome consists of structural RNAs and about 60 different proteins.

D. For initiation, the ribosome binds to the mRNA at the start codon (AUG) that is recognised only by the initiator tRNA

Answer: C

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72. In eukaryotes, after transcription of mRNA, some of its nucleotides are removed before it is translated into a polypeptide. The

nucleotides which are removed from mRNA are called :

A. Exons

B. Upstream sequences

C. Unusual bases

D. Introns

Answer: D

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73. Select the incorrect statement.

A. Mammals from colder climates generally have shorter ears and limbs to minimise heat loss.

B. Many desert plants have a thick cuticle on their leaf surface and have their stomata arraged in deep pits (sunken) to minimise water loss through transpiration

C. During altitude sickness, the body compensates low oxygen availability by increasing red blood cell production, increasing the binding affinity of haemoglobin and by increasing breathing rate

D. Desert lizards manage to keep their body temperature fairly constant by behaviouraly means.

Answer: C

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74. The causative agent for mad cow

A. Viroid

B. Mycoplasma

C. Prions

D. Virus

Answer: C

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75. Which of the following is not correctly matched for the organism and its cell wall degrading enzyme.

A. Plant cells - Cellulase

B. Algae - Methylase

C. Fungi - Chitinase

D. Bacteria - Lysozyme

Answer: B

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76. In rDNA technology, the term 'vector' refers to

A. the enzyme that cuts DNA fragment

B. the sticky end of a DNA fragment.

C. a plasmid used to transfer DNA into a living cell.

D. a DNA probe used to identify a particular gene

Answer: C

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77. Read the following statements about animal tissues : A. The smooth muscle muscle fibres are non-striated, fusioform shape and hold together by cell junctions.

B. Cardiac muscle is structurally similar to smooth muscle and acts similar to skeletal muscle.

C.The skeletal muscle is the only multinucleate

and voluntary muscles with alternate light and dark striations .

A. A and B are correct , C is incorrect

B. A is incorrect, B and C are correct

C. A and C are correct , B is incorrect

D. A is correct , B and C are incorrect

Answer: C

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78. Which of the following methods can be used for making the bacterial cell " competent" ?

A. Treating with a specific concentration of divalent cation $\left(Ca^{+2}\right)$

B. Treating with a specific concentration of monovalent cation $\left(K^{+}\right)$

C. Heat shock/electric current of high voltage

D. Both (A) and (C)

Answer: D

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79. Transgenic tobacco plants are protected against :

A. Dipterans

B. Coleopterans

C. Meloidegyne incognita

D. Lepidopterans

Answer: C

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80. Rosie' a transgenic cow is known to produce a type of milk which has all the following characteristics, except

A. Protein content of 2.4 gm/litre

B. Has human α- lactalbumin

C. More balanced diet than normal cow milk for babies

D. Was produced for the first time in year 2011

Answer: D

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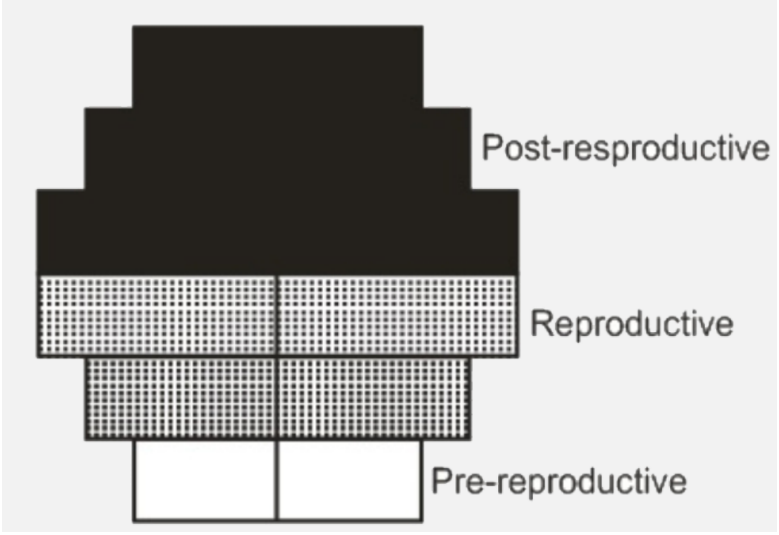
81. What type of human population is represented by the following are pyramid?



A. Increasing population

B. Stable population

C. Declining population

D. Expanding population

Answer: C

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82. Select the correct statement regarding population interaction.

A. Commensalism when none of the interacting populations affect each other

B. Symbiosis when the interaction is useful to both the populations .

C. Protocooperation when one population

D. Amensalism when the interaction is useful to the populations

Answer: B

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83. The correct sequence of plants in a hydrosere is

A. Volvox $\rightarrow$ Hydrilla $\rightarrow$ Pistia $\rightarrow$ Scirpus $\rightarrow$ Lantana $\rightarrow$ Oak

B. Pistia $\rightarrow$ Volvox $\rightarrow$ Scirpus $\rightarrow$ Hydrilla $\rightarrow$ Oak $\rightarrow$ Lantana

C. Oak $\rightarrow$ Lantana $\rightarrow$ Volvox $\rightarrow$ Hydrilla $\rightarrow$ Pistia $\rightarrow$ Scirpus

D. Oak $\rightarrow$ Lantana $\rightarrow$ Scirpus $\rightarrow$ Pistia $\rightarrow$ Hydrilla $\rightarrow$ Volvox

Answer: A

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84. Which of the following is an example of man-made ecosystem?

A. Estuary

B. Crop land

C. Grass land

D. Desert

Answer: B

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85. Brown algae vary in colour from olive green to various shades of brown depending upon the amount of the pigment

A. Fucoxanthin

B. Phycobilin

C. Carotenoid

D. Phycoerythrin

Answer: A

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86. A prokaryotic autotrophic nitrogen fixing symbiont is found in

A. Alnus

B. Cicer

C. Pisum

D. Cycas

Answer: D

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87. Select the correct option regarding the wall of parenchyma.

A. Thick

B. Made of pectin

C. Thin

D. Made of cellulose

A. A and B

B. A and D

C. B and C

D. C and D

Answer: D

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88. Find the correct match.

	Column-I		Column-II
a.	Stem tendrils	(i)	*Agave*
b.	Stem thorns	(ii)	Water hyacinth
c.	Offset	(iii)	*Bougainvillea*
d.	Bulbil	(iv)	Watermelon

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

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

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

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

Answer: B

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89. Select the incorrect statement about Liliaceae.

A. Bisexual , zygomorphic flower

B. Bisexual, actinomorphic flower

C. Leaves are mostly basal, exstipulate with parallel venation

D. Tepal shows valvate aestivation

Answer: A

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90. Match the right example of modified root

	Modified root	Example
A.	Storage Root	*Rhizophora*
B.	Respiratory Root	Carrot
C.	Prop root	Maize
D.	Stilt root	Banyan Root

A. A : Carrot , B - Rhizophora , C : Banyan , D : Maize

B. B : Carrot, A : Rhizonphora, C : Banyan, D : Maize

C. A : Carrot, C : Rhizophora, B : Banyan, D : Maize

D. A : Carrot , B - Rhizophora , D : Banyan , C : Maize

Answer: A

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