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## BIOLOGY

## BOOKS - NTA MOCK TESTS

## NTA NEET TEST 79

## Biology

1. Which or the following specialized connective tissues. intercellular material is solid, pliable, and resists compression ?
A. Tendons
B. Ligaments
C. Cartilage
D. Bones

## Answer: C

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2. Which green algae shows only oogamous type sexual reproduction ?
A. Ulothrix
B. Volvox
C. Spirogyra
D. Chlamydomonas

## Answer: B

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3. The ........(i) ...... very in colour from olive green to various shades of brown depending upon the amount (ii)........
A. (i) red algae (ii) phycobilins
B. (i) green algae (ii) chlorophyll
C. (i) brown algae (ii) chlorophyll
D. (i) brown algae (ii) carotenoids

## Answer: D

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4. All of the following structure in a cockroach has jointed segmental or filamentous structure except ,
A. Anal style
B. Anal cerci
C. Antenna
D. Walking legs
5. A tap roots is always
A. + Vely geotropic and + vely hydrotropic
B. + Vely phototropic and + vely hydrotropic
C. - Vely geotropic and + vely hydrotropic
D. - Vely hydrotropic and + vely geotropic

## Answer: A

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6. The structure which holds the leaf blades and help to flutter in wind known as a
A. Pulvinus
B. Petiole
C. Stipule
D. Lamina

## Answer: B

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7. Which of the following is not a part of brain stem of human brain?
A. Mid brain
B. Pons
C. Medulla oblongata
D. Cerebellum

## Answer: D

8. In the leaflets are attached at a common point i.e. at the tip of petiole.
A. Silk Cotton
B. Neem.
C. Calotropis
D. Guava

## Answer: A

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9. Read the following statements carefully :
(i) Urge for eating and drinking as well as body temperature is controlled by the hypothalamus.
(ii) The limbic system along involved in the regulation of sexual behavior, expression of emotions, and excitement.
(iii) The presence of four round swellings called corpora quadrigemina
on the ventral portion of the midbrain is the characteristics feature of the human brain.
(iv) Cerebellum has a very convoluted surface in order to provide additional space for many neurons.

How many statements from the above is/are correct ?
A. Four
B. One
C. Two
D. Three

## Answer: C

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10. The seed of Pinus sp . Is
A. Uneconomic and nonendospermic
B. Abaxial and rounded
C. Abaxial and endospermic
D. Hypogeal and monocotyledonous

## Answer: C

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11. Which of the following features is not applicable for red muscle fibres
?
A. It has high content of red colour oxygen storing pigment myoglobin..
B. It also contains plenty of Mitochondria for maximum ATP production.
C. It has also high amount of sarcoplasmic reticulum .
D. It is also called as aerobic muscles.

## Answer: C

12. The elongated or tube-like cells, with thick, lignified walls and tapering ends are
A. Tracheids
B. Vessels
C. Xylem fiber
D. Xylem parenchyma

## Answer: A

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13. Which of the following given the structure of the human body can possess maximum type of synovial joints?
A. Human skull bones
B. Human hand
C. Human Cervical vertebrae
D. Human knee

## Answer: B

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14. Which among the structure has an elongated, unbranched, pointed, and needle-like apices ?
A. Phloem parenchyma
B. Phloem fibre
C. Companion cells
D. Sieve tubes

## Answer: B

15. In some prokaryotes, some membranous extensions are present in the cytoplasm which contain pigments , known as ....
A. Mesosomes
B. Volutin
C. Chromatophore
D. Chromatids

## Answer: C

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16. Mesosomes are formed by the extension of plasma . membrane into the cytoplasm and help in many functions except
A. cell wall formation
B. helps in DNA replication
C. Polysome formation
D. Secretion processes

## Answer: C

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17. Which of the following endocrine structure synthesizes and secretes releasing and inhibiting hormones to control another endocrine structure?
A. Master of master gland
B. Master gland
C. Supra renal gland
D. Both (a) and (c)

## Answer: C

18. Select the wrong statements.
(i) All eukaryotic cells are identical.
(ii) All eukaryotic cells show compartmentalization.
(iii) Centrioles are absent in almost all plant cells.
(iv) Animal cells contain no larger central vacuoles.
A. Only (i)
B. Only (i) and (ii)
C. Only (iv)
D. Only (iii)

## Answer: A

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19. Which one of the following function is not related two hormones of adrenal cortex of adrenal gland?
A. It regulate the balance of water and electrolyte in human body.
B. It stimulate RBC production of erythropoiesis .
C. It maintain emergency situations or 3 ' F ' conditions.
D. It suppresses the immune response/system .

## Answer: C

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20. The structure of the protein that is absolutely necessary for its biological activity is
A. Primary structure
B. Secondary structure
C. Tertiary structure
D. Quaternary structure

## Answer: C

21. Which of the the following assisted reproductive technique is applicable in a woman who cannot ovulate regularly but can provide suitable environment for fertilization ?
A. ZIFT
B. ICSI
C. GIFT
D. All of the above

## Answer: C

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22. Select the incorrect statement with respect to adult human hemoglobin.
A. It is quaternary structure.
B. It contain four non identical polypeptides.
C. It contains two alpha and two bata chains .
D. Both alpha chains are identical .

## Answer: B

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23. Select the wrong statements with respect to DNA .
(i) The backbone of DNA is formed by the sugar-phosphate chain.
(ii) The two strands of the Polynucleotide are anti-parallel.
(iii) The nitrogen bases are parallel to the backbone .
(iv) The backbone contains a hydrogen bond.
A. (i) and (ii)
B. (ii) and (iii)
C. (iii) and (iv)
D. (iv) and (i)

## Answer: C

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24. Intentional or voluntary termination of pregnancy before full term is called
A. MTP
B. Miscarriage
C. Natural abortion
D. All of the above

## Answer: A

25. The sequence of events by which a cell duplicates its genome, cell constituents, and finally divides into two cells is termed as a cell cycle , and which of the following is not a part of this process?
A. G 1
B. GO
C. S
D. $M$

## Answer: B

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26. The given group of animals belong to Gnathostomata and bear limbs are :
A. Myxine , Clarius, Exocoetus
B. Icthyophis, Hippocampus,Bufo
C. Hyla, Chelone , Corvus,
D. Chelone, Betta, psittacula

## Answer: C

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27. ......... is a taxonomic category and identified on the basis of aggregates of characters.
A. Species
B. Genus
C. Family
D. Order

## Answer: D

28. Read the following match about phylum and it's one character :
I. Annelida : First- time true coelom (schizocoelom) present in them.
II. Arthropoda : Only metamerically segmented animals with hemocoel.
III. Echinodermata : Have exoskeleton of calcareous ossicles and spines .
IV. Hemichordata : Small worm-like marine animals with the notochord.

How many from the above is/ are the correct
A. Two
B. Three
C. Four
D. One

## Answer: D

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29. Archaebacteria differ from other bacteria in having different.
A. Size
B. Shape
C. Cell wall
D. Ribosome

## Answer: C

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30. Select the correct match from the following :
A. Therapsids : Synapsids and were ancestors of mammals .
B. Ichthyosaurs : Dinosaur with huge fearsome body \& dagger like teeth.
C. Homo habilis: First use of fire and probably ate meat .
D. Homo erectus : First use of stone tools were called tool maker on handy man.

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31. Cyanobacteria or blue - green algae contain some specialized cells, known as $\qquad$
A. Akinetes
B. Heterocyst
C. Aplanosopore
D. Zoospores

## Answer: B

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32. Single step large Mutation is named as X $\qquad$ by $\qquad$ Y $\qquad$

Find out the correct option for $X$ and $Y$
$X$
A.

Speciation Hugo deVreies
B. $X \quad Y$

Saltation Charles Darwin
$\begin{array}{ll}\text { c. } & \begin{array}{ll}X & Y \\ \text { Mutation } & \text { Charles Darwin }\end{array}\end{array}$
D. $\begin{array}{ll}X & Y \\ \text { Saltation } & \text { Hugo deVries }\end{array}$

## Answer: D

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33. Choose the correct Statement about DNA packaging from the following.
A. The beads-on-string structure in chromatin is packaged to from chromatin finers that are further coiled and condensed during metaphase.
B. A typical nucleosome contains 300 bp of DNA helix
C. Histones are rich in the basic amino acid residues glycine and arginine, both of which carry a oha positive charge .
D. In a typical nucleus, the region of chromatin which stains light is referred to as heterochromatin.

## Answer: A

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34. Read the following statements and choose the correct option.
(i) Mycoplasma lacks a cell membrane.
(ii) Mycoplasma are the smallest living cells to exist on the planet.
(iii) Mycoplasma survives only without oxygen.
A. (i) and (iii) correct
B. (ii) and (iii)incorrect
C. (i) and (ii) incorrect
D. (ii) and (iii) incorrect

## Answer: C

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35. Select the incorrect statement with respect to mitotic anaphase .
A. Chromatids of the chromosome at the metaphase plate are split simultaneously.
B. The centromere of each chromosomes remains directed towards the pole as the chromosome moves away .
C. Chromosomes cluster at the opposite poles and their identity is lost as discrete elements.
D. It is the best stage to study the position of the centromere in the chromosomes.

## Answer: C

36. $\qquad$ is / are liable to saturation, respond to inhibitor and is under hormonal regulation and moves only along a concentration gradient .
A. Simple diffusion
B. Facilitated transport
C. Active transport
D. Both facilitated and active transport

## Answer: D

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37. Which one the following factors does not affect the Hardy-Weinberg
law of genetic equilibrium ?
A. Natural selection
B. Genetic drift
C. Random mating
D. Recombination

## Answer: C

## - Watch Video Solution

38. ........ is present in cysteine and methionine and is the main constituent of several coenzymes .
A. Magnesium
B. Sulphur.
C. Potassium
D. Phosphorus

## Answer: B

39. Which of the following pigments absorbs light and prevents photooxidation of chlorophyll ?
A. Chlorophyll a
B. Chlorophyll b
C. Carotenoids
D. Xanthophylls

## Answer: C

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40. Which of the following is not related to the non-cyclic process of light reaction?
A. The process involves both the photosystems which are interconnected by the ETS.
B. It results only in the synthesis of ATP, but not of $N A D P H+H^{+}$.
C. The membranes of the stroma lamellae lacked PS II.
D. Photolysis of water is essential for it.

## Answer: B

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41. List the set of factors from the following, which are responsible for dissociation of oxygen from the oxyhaemoglobin?
A. High $p \mathrm{CO}_{2}$, low $p O_{2}$, low pH
B. High temperature , low $p O_{2}$ less $H^{+}$conc.
C. Low $p O_{2}$ high $p \mathrm{CO}_{2}$ high pH
D. High $p O_{2}$, low $p \mathrm{CO}_{2}$, high temperature

## Answer: A

42. During aerobic respiration, the passing on of the electrons removed as a part of the hydrogen atom to molecular $O_{2}$ occurs in the.
A. Cytoplasm
B. Mitochondrial outer membrane
C. Mitochondrial inner membrane
D. Mitochondrial matrix

## Answer: C

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43. After, the second decarboxylation of the Krebs cycle ,.....(i).......will produce and it goes .......(ii)......... times dehydrogenation .
A. (i) alpha-ketoglutarate (ii) three
B. (i) succinic acid (ii) two
C. (i) succinyl co-A (ii) two
D. (i) malic acid (ii) two.

## Answer: C

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44. Which of the following is not correct the thoracic chamber in humans?
A. It is an air tight chamber is which lungs are situated.
B. It is formed ventrally by sternum and dorsally by ribs.
C. It is formed on the lower side by the dome shaped diaphragm.
D. Both (A) and (C)

## Answer: B

45. Which of these plant hormones allows the plant to withstand extremely dry climates?
A. $A B A$
B. Auxin
C. Cytokinin
D. GA

## Answer: A

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46. The abnormal frequency of bowel movement and increased liquidity of fecal discharge is known as
A. Diarrhoea
B. Constipation
C. Indigestion
D. Vomiting

## Answer: A

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47. The internodal segments of tobacco stem the callus proliferated only if it contains (i).........in addition to (ii).......
A. (i) Yeast extract , (ii) coconut milk
B. (i) Coconut milk , (ii) Auxin
C. (i) yeast extract, (ii) cytokinin
D. (i) coconut milk , (ii) Gibberellic acid

## Answer: B

48. Which of the following is incorrect match about human excretory system?
A. Columns of Bertini : extension of cortex in between the renal pyramids.
B. Renal corpuscles : Bowman's capsule and glomerulus.
C. Cortical nephrons : Vasa recta is absent or highly reduced .
D. Podocytes : Cuboidal epithelium of Bowman's capsule .

## Answer: D

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49. Choose the incorrect statement in reference to the male reproductive organs of angiosperms
A. Sporogenous tissue of a young anther is composed of homogenous cells.
B. A typical angiosperm has a bilobed and dithecous anther .
C. The anther consists of four microsporangia location at the corners , two in each lobe.
D. The tapetum helps in the dehiscence of the another to release the pollen.

## Answer: D

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50. Which of the following Statement is correct about heart failure ?
A. a condition in which heart stop beating.
B. When the heart muscle is suddenly damaged by an adequate blood supply .
C. Congestion of the lungs is one of the main symptoms of this disease.
D. Chest pain appears when no enough oxygen is reaching to the heart muscles

## Answer: C

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51. The pollen grain viability is highly variable Select the least viable pollen grain from the following list of choices.
A. Peas
B. rose
C. potatoes
D. rice

## Answer: D

52. A typical angiosperm embryo sac contains 8 nucleus and 7 cells. These 8 nucleus are formed by
A. 4 mitotic divisions
B. 7 mitotic divisions
C. 5 meiotic divisions
D. 4 meiotic divisions

## Answer: B

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53. Read the following statement and choose the correct option.
A. The first heart sound (lub) is associated with the closure of both semilunar valves.

The duration between the adjacent second heart sound and first heart sound is 0.3 seconds
C. The cardiac output is the stroke volume multiplied by the number of heartbeats per minute.
A. A, B and c are correct
B. A,C are correct but B is incorrect
C. A is correct but $\mathrm{B}, \mathrm{C}$ are incorrect
D. $A, B$ are incorrect but $C$ is correct

## Answer: D

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54. Read the following statements and select the correct statements.
(i) DFC begins with dead inorganic matter.
(ii) DFC is the major conduit for energy flow in a terrestrial ecosystem
(ii) GFC of aquatic ecosystem is longer than a terrestrial ecosystem.
(iv) DFC and GFC are completely separate chains.
A. (i) and (ii)
B. (ii) and (iii)
C. (iii) and (iv)
D. (i) and (v)

## Answer: B

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55. Select the correct match from the following :
A. Albumin : help to maintain osmotic balance
B. Globulin : helps to provide immunity
C. Fibrinogen : prevent blood loss
D. All of the above

## Answer: D

56. The entire sequence of communities that succesively change in a given area are called
A. Climax Community
B. Sere
C. Pioneer community
D. standing state

## Answer: B

## - Watch Video Solution

57. Which of the following statement is correct for the mechanism for oxytocin hormone?
A. It crosses the target cell membrane and entre inside the target cell.
B. It binds to specific intracellular receptor to form $\mathrm{H}-\mathrm{R}$ complex.
C. It generates secondary messengers inside cell to give physiological response.
D. All of the above

## Answer: C

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58. During an ecological succession, many changes occur. Select the wrong statement with respect to succession.
(i) Some species colonies and some species disappear
(ii) Diversity will not change during succession.
(iii) The total biomass increases .
(iv) The species number increases.
A. (i) and (ii)
B. only (iii)
C. only (ii)
D. (iii) and (i)

## Answer: C

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59. All of the following are tiger subspecies which have recently gone extinct , except
A. Quagga
B. Javan
C. Bali
D. Caspian

## Answer: A

60. Choose the correct statement from the following .
A. The temperature of Earth has increased by $0.6^{\circ} C$ in the past century.
B. $C H_{4}$ contributes about $14 \%$ of all the greenhouse gases to global warming .
C. Clouds and gases reflect about one - third of the incoming solar radiation, and absorb some of it.
D. El Nino effect is referred to the melting of the ice caps of the Himalayan region.

## Answer: A

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61. Which of the following is the reason for Dodo extinction ?
A. Habitat loss
B. Co - extinction
C. Over - exploitation
D. Alien species invasion

## Answer: C

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62. Biochemical oxygen demand represents :
A. Quantity of inorganic matter in water
B. Quantity of Heavy metals in water
C. Quantity of organic matter in water
D. Quantity of non biodegradable organic matter.

Answer: C
63. $\qquad$ refers to the increase in the concentration of toxicant like mercury at a successive level.
A. Productivity
B. Biomagnification
C. Decomposition
D. Eutrophication

## Answer: B

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64. In the fully organized Polygonum type of embryo sac, what is the ratioof haploid, diploid and triploid nuclei?
A. 3:1:3
B. 6:0:1
C. $6: 1: 0$
D. 3:2:3

## Answer: C

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65. In which of the following plant flowers are invariably autogamous?
A. Commelina
B. Viola
C. Oxalis
D. None of the above

## Answer: D

66. Which of the following disorders can't be studied by pedigree analysis?
A. Cystic fibrosis
B. Down Syndrome
C. Sickle cell anemia
D. Phenylketonuria

## Answer: B

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67. The size of the seed grain in pea is an example of :
A. Complete Dominance
B. Incomplete dominance
C. Multiple alleles
D. Pleiotropism

## Answer: B

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68. In which of the following organism, males are heterogametic and have chromosome number different than females?
A. Drosophila
B. Human
C. Birds
D. Bugs

## Answer: D

69. Taylor and his colleagues proved the semi - conservative model of replication by performing experiments on $\qquad$ (a) $\qquad$ Using (b)
(a) (b)
Bacteriophage radioactive thymidine
B. ${ }^{(a)}$ (b)
E. coli radioactive nitrogen
C. ${ }^{(a)}$
(b)

Vicia faba radioactive nitrogen
D. $\begin{array}{ll}(a) & (b) \\ \text { E. coli } & \text { heavy nitrogen }\end{array}$

## Answer: C

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70. MacLeod, McCarty and Avery determined that R strain bacteria transforming into S strain bacteria because of:
A. RNA
B. Protein
C. DNA
D. All of these

## Answer: C

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71. Find the correct match

|  | Column I |  | Column II |
| :--- | :--- | :--- | :--- |
| a. | Non-degenerate codon | (i) | GUG |
| b. | Ambiguous codon | (ii) | UAG |
| c. | Amber | (iii) | UGG |
| d. | Ochre | (iv) | UGA |
|  |  | (v) | UAA |

A. $a(i i i), b(i), c(i i), d(v)$
B. $a(i), b(i i), c(v), d(i i i)$
C. a (iii) , b (i) , c (iv) , d (v)
D. $a(i i i), b(i), c(v), d(i i)$

## Answer: A

72. $\qquad$ is used to produce a bioactive molecule which is used as an immunosuppressive agent in organ - transplant patients.
A. Monascus
B. Clostridium
C. Streptococcus
D. Trichoderma

## Answer: D

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73. Select the incorrect statement with respect to aeration tank of the sewage treatment plant.
A. In this tank microbes consume the major part of organic matter.
B. Flocs contain aerobic fungal and anaerobic bacteria.
C. BOD will reduce significantly.
D. The primary effluent is constantly agitate mechanically and air is pumped into it.

## Answer: B

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74. The rat in North American deserts is capable of meeting all its water requirements through its internal fat oxidation. It is an example of
A. Morphological adaptation
B. Behavioral adaptation
C. Anatomical adaptation
D. Physiological adaptation

## Answer: D

75. In Brood parasitism :
A. Cuckoo bird lay its eggs in the nest of its host's nest
B. Cusuta growing on host plant
C. Lice on human
D. Clown fish that lives among sea anemone

## Answer: A

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76. In a plant, red fruit (R) dominant over yellow fruit ( $r$ ) and tallness ( $T$ ) is dominant over shortness ( t ). If a plant with RRTT genotype is crossed with a plant that is rrtt. Then
A. $25 \%$ will be tall with red fruit
B. $50 \%$ will be tall with red fruit
C. $75 \%$ will be tall with red fruit
D. All of the offspring will be tall with red fruits

## Answer: D

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77. A family of five daughters only is expecting sixth issue. The chance of its beings a son is
A. Zero
B. $25 \%$
C. $50 \%$
D. $100 \%$

## Answer: C

78. Flowering plants have developed many devices to discourage self pollination and to encourage cross - pollination except
A. Dicliny
B. Dichogamy
C. Homogamy
D. Self Incompatibility

## Answer: C

## - Watch Video Solution

79. Which of the following method of animal breeding, superior male of one breed are mated with superior females of another breed to form progeny hydrid?
A. Cross - breeding
B. Out - crossing
C. Inbreeding
D. Interspecific hybridization

## Answer: A

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80. Which of the following cells of human testis are present in the regions outside the seminiferous tubules but in the testicular lobules?
A. Leydig cells
B. Sertoli cells
C. Nurse cells
D. All of the above

## Answer: A

81. Which of the following reproductive structure is divided into cortex and medulla ?
A. Uterus
B. Placenta
C. Oviduct
D. Ovary

## Answer: D

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82. Read the following sentences about human reproduction:
A. The process of childbirth or parturition is induced by a complex neuroendocrine mechanism involving oxytocin.
B. The reproductive cycle of all primate mammals is called the menstrual cycle.
C. Most of the major organ systems of the foetus including genital organ
systems of the foetus including genital organs are developed by the end of 24 weeks.
D. The second meiotic division of secondary oocyte is unequal and results in the formation of an ovum and a second polar body. How many from the above is/ are incorrect ?
A. four
B. Three
C. Two
D. One

## Answer: C

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83. Which of the following is a sexually transmitted disease but is not a reproductive tract infections ?
B. Syphilis
C. Hepatitis - B
D. Genital herpes

## Answer: C

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84. Find out the incorrect match about allergy and inflammatory reactions.
A. Antigens : pollens, dust , animal fur.
B. Antibody: the least concentration IgE type
C. Cell : T lymphocytes
D. Chemicals : Histamine , serotonin

## Answer: C

85. Read the following statement carefully:
A. Smack is chemically diacetylmorphine which is a white, ordourless, bitter crystalline compounds.
B. Crack is a coca alkaloid, is obtained from coca plant Thebroma cocoa, and is usually snorted.
C. Smoking is associated with an increased risk of cancer of the lung .
D. The chronic use of drugs and alcohol damages the nervous system and liver.

Choose the correct statement only.
A. A,C,D
B. $A, C, D$
C. $A, B, C$
D. C,D only

## Answer: B

86. Select the incorrect match.

| A.Algae Use <br> Gelidium Preparation of ice - creams and jellies |  |
| :--- | :--- |
| B.Algae Use |  |
| Spirullina | Used as food suppliments by space travelers |
| C. |  |
| Algae | Use |
| Chlorella | Used in cough syrups |
| D. | Algae$\quad$ Use |
| Brown algae | As emulsifying agent |

## Answer: C

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87. Which tissue is not correctly related to its fate during the secondary growth ?
Tissue
Fate during secondary growth
secondary xylem Produced in high amount
B. Tissue Fate during secondary growth
Primary phloem Produced in low amount
C.

Tissue Fate during secondary growth
Cambial ring Cut off secondary permanenet tissue on both side
Tissue Fate during secondary growth
D.
secondary phloem Synthesized on outer side

## Answer: B

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88. The given structure of protein corresponds to :

A. Primary
B. Secondary
C. Quaternary
D. Tertiary

## Answer: D

89. Match the column - I with column - II

Column - I
Column - II

1. Micronutrients $A$. Fe
2. Macronutrients B. Nitrosomonas
3. Nitrification
C. $S$
4. Denitrification $D$. Thiobacillus
A. 1-C, 2-A, 3-D, $4-\mathrm{B}$
B. 1-C,2-A, B , 4-D
C. 1-A, 2-C,3-D,4-B
D. 1-A, 2-C, 3-B, 4-D

## Answer: D

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90. In which of the following case, mice will remain alive in Griffith's transforming experiments ?
A. Heat killed S-strain injected into mice .
B. DNA from heat killed S - strain + R-strain injected into mice .
C. S- strain injected into mice.
D. More than one option is correct

## Answer: A

