doubtnut
India's Number 1 Education App

BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 33

Biology

1. Read the following statement and identify which one is incorrect.

A. Non - living things can grow extrinsically

B. Reproduction is not the defining feature of living organisms.

C. An isolated metabolic reaction outside the dody of an organism is non - living .

D. Human is the only organism which has self - consciousness.

Answer: C

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2. In terms of quantity , the correct chronological order of blood cells is

A. Erythrocyte > thrombocyte > neutrophil > lymphocyte > monocyte > eosinophil > basophil

B. Erythrocyte > thrombocyte > monocyte > neutrophil > lymphocyte > eosinophil > basophil

C. Erythrocyte > neutrophil > lymphocyte > monocyte >

eosinophil > basophil > thrombocyte

D. Erythrocyte > thrombocyte > neutrophil > lymphocyte > eosinophil > monocyte > basophil

Answer: A

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3. Read the following statements regarding the ciliated epithelium .

I. Found only in the lining of the trachea .

II cilia are found on the free surface of the cells.

III Help in moving particles or mucus in a particular direction over the epithelium.

IV Microvilli are found at the free end to increase the surface area of the organ.

identify the ones that are correct .

A. I, II , III and IV

B. I and II only

C. II and III only

D. II , III and IV only

Answer: C

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4. In majority of nephrons , the loop of Henle is

A. Too long and extends deep into the medulla

B. Too short and extends only very little into the medulla

C. Too long and doesn't extend in the medulla at all

D. Too short and doesn't extend in the medulla at all

Answer: B

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5. In yeasts , two yeasts, two organisms fuse together. This type of syngamy is called

A. Isogamy

B. Anisogamy

C. Oogarmy

D. Hologamy

Answer: D

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6. In which of the following bees, wax glands are found

A. Queen bee

B. Drone

C. Workers

D. Both in queen and worker bees

Answer: C

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7. The first transgenic cow , Rosie , Produced human protein - enriched milk. Which of the following year it was produced and what is the human protein produced in the milk ?

A. In 1993 and β - lactamase enzyme

B. In 1997 and α - lactamase protein

C. In 1999 and $\alpha - 1$ - antitrypsin enzyme

D. In 1993 and adenosine deaminase enzyme

Answer: B

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8. A homozygous tall pea plant with yellow pods is crossed with a homozygous dwarf pea plant with the green pods. The off springs produced are salted. In the F_2 generation , the ratio of plants having parental combinations to new combinations is

A. $10:6$

B. $6:10$

C. $9:7$

D. $7:9$

Answer: B

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9. For frugivorous birds and mammals in the tropical forests of different continents the slope is found to be

A. $0.1 \text{ to } 0.2$

B. $0.6 \text{ to } 1$

C. 1.15

D. 2.15 to 3

Answer: C

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10. Read the following statements regarding agarose gel electrophoresis and select the CORRECT ones.

I. The longest DNA fragments are nearest to the anode.

II. The matrix of the gel is a natural polymer obtained from seaweeds.

III The process is used to check the progression of restriction enzyme digestion.

IV. The fragments of DNA separated due to the sieving effect provided by agarose gel.

A. I, II III and IV

B. III and IV only

C. II, III and IV only

D. I, II and III only

Answer: C

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11. Which of these is not a contrivance for cross pollination ?

A. Dicliny

B. Dichogamy

C. Cleistogamy

D. Herkogamy

Answer: C

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12. An organism has a gene ' X '. Its dominant allele expresses character c - 1 while it's recessive allele expresses character c - 2 This dominant allele is completely dominant over the recessive allele . It has another gene ' y ' which in its dominant form doesn't allow any expression of gene ' x ' which of these genotypes of that organism Will produce character c - 1 ?

A. xxyy or XxYy

B. XXYY or xxyy

C. xxYy or XXYy

D. Xxyy or Xxyy

Answer: D

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13. Lucy and Taung bady are fossils of

A. Ramapithecus

B. Australopithecus

C. Java man

D. Dryopithecus

Answer: B

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14. Atlas 66 is

A. A wheat variety having high protein content

B. A maize variety having twice the amount of the amino acids , lysine and tryptophan

C. A maize variety having high protein content

D. A wheat variety having twice the amount of the amino acids, lysine and tryptophan

Answer: A

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15. Which of these statements is correct ?

A. Herbivores are more adversely affected by competition than carnivores,

B. Carnivores are more adversely affected by competition than herbivores.

C. Both herbivores and carnivores are equally affected by competition

D. Both herbivores and carnivores are not affected by competition .

Answer: A

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16. Which of the following is a dominant autosomal mutation ?

A. Phenylketonuria

B. Huntington's disease

C. Cystic fibrosis

D. Alzheimer's disease

Answer: B

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17. Meristems may be classified on the basis of

A. Origin and development

B. Position in plant body

C. Functions

D. All of these

Answer: D

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18. some secretary cells synthesize and release glycoproteins. What is the correct order of the sequence of events as they occur in the secretory cell?

I . Exocytosis

II. Product accumulates in secretory vesicle

III. mRNA binds to ribosomes

IV. Synthesis of glycoprotein

A. III, IV ,I , II

B. III,IV ,II, I

C. IV,III,I,II

D. IV,III,II,I

Answer: B

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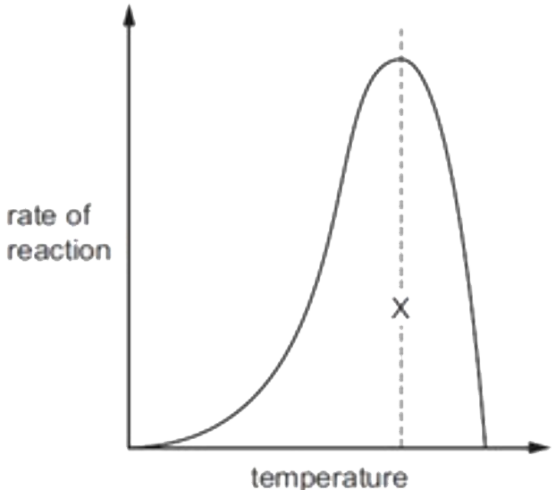
19. The graph shows the effect of temperature on the rate at which the enzyme in a biological washing powder digests and removes fruit juice stains .



Which statements explain the shape of the graph at temperatures higher than X ?

I. Bonds are broken between the R groups of

the amino acids in the polypeptide chains of the enzyme.

II. There are more collisions between the enzyme and its substrate.

III. The tertiary structure of the enzyme is altered.

Iv. The shapes of the active site and the substrate are no longer complementary .

A. I,II and III

B. I,II and IV

C. I,III and IV

D. II,III and IV

Answer: C

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20. A student comes across the following symbol in a pedigree chart . The disease is

definitely.

A. Autosomal dominant

B. Autosomal recessive

C. X linked dominant

D. X linked recessive

Answer: B

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21. Cattle and goat refrain form feeding on the weed Calotropis because

A. It has thorns which causes injuries to them.

B. It doesn't have enough nutrients to feed them .

C. It produces highly poisonous cardiac glycosides .

D. It produces a toxin which causes paralysis in them.

Answer: C

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22. A molecule of lactose is formed by a glycosidic bond between

A. Galactose and fructose

B. Galactose and galactose

C. Galactose and glucose

D. Fructose and galactose

Answer: C

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23. Secondary carnivores occupy the

A. First trophic level of a food chain

B. Second trophic level of a food chain

C. Third trophic level of a food chain

D. Fourth trophic level of a food chain

Answer: D

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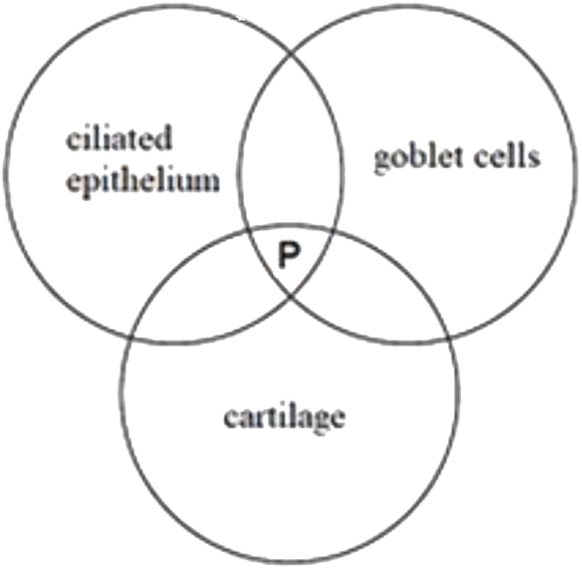
24. The diagram shows three features found in the tissues of the human respiratory system. Which tubes of the gas exchange system could

be represented at position P in the diagram ?



A. Bronchus, Bronchiole and Trachea

B. Bronchus and Bronchiole

C. Bronchus and Trachea

D. Trachea and Bronchiole

Answer: C

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25. Which of these animals produce gametes by mitosis ?

A. Fruit flies

B. Rats

C. Grasshoppers

D. Drones

Answer: D

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26. Which of these Eltonian pyramids are correctly described ?

A. Pyramid of numbers - may be erect or inverted , Pyramid of biomass - may be erect or inverted , Pyramid of energy -

may be erect or inverted , Pyramid of energy - may be erect or inverted

B. Pyramid of numbers - always erect, pyramid of biomass - may be erect or inverted , pyramid of energy - may be erect or inverted

C. Pyramid of numbers - may be erect or inverted , Pyramid of biomass - may be erect, Pyramid of energy - may be erect or inverted

D. Pyramid of numbers - may be erect or inverted , Pyramid of biomass - may be erect, Pyramid of energy - always erect

Answer: D

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27. Identify the row having features true for a typical plant cell .

	Cell Wall	Ribosome	Cell Diameter
I	Cellulose	80S	1-5μm
II	Cellulose	70S and 80S	10-100μm
III	Peptidoglycan	70S	1-5μm
IV	Peptidoglycan	70S and 80S	5-40μm

A. I

B. II

C. III

D. IV

Answer: B

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28. Which of these genotypes are of homozygous individuals ?

A. AABBCC

B. AAbbCC

C. AABBcc

D. All of these genotypes

Answer: D

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29. Evolutionary biology is the study of

A. History of chemical variation of life

B. History of ecological biology

C. History of environmental biology

D. History of life forms on earth

Answer: D

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30. currently we are experiencing the..... episode of mass extinction of species

A. Fifth

B. Sixth

C. Seventh

D. Tenth

Answer: B

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31. The longest pollen grain is found in the species of angiosperms which produces

A. Entomophilous flowers

B. Anemophilous flowers

C. Hydrophilous flowers

D. Ornithophilous flowers

Answer: C

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32. which statement explains why DNA replication is described as semi - conservative ?

A. Half of each original strand is conserved in each new molecule of DNA.

B. Half of the base sequence of each strand is conserved in each new molecule of DNA.

C. Only one strand of DNA is used as a template during replication.

D. The template for each new strand of DNA molecule is one strand of the original molecule

Answer: D

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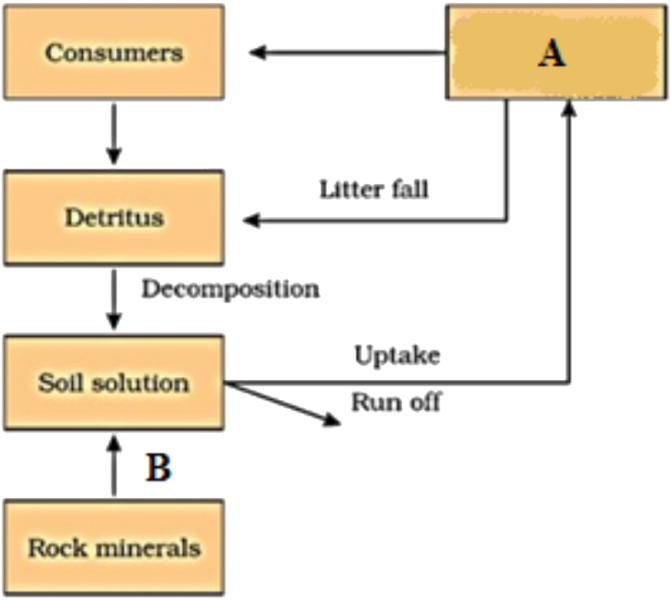
33. This flowchart is a simplified model of Phosphorous cycle . Identify labeling A and B.



A. A: Producers

B: Leaching

B. A: Leaching

B: Producers

C. A: Weathering

B: Producers

D. A: Producers

B: Weathering

Answer: D

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34. Biodiversity hotspots are regions with

A. Low degree of endemism and high levels of species richness

B. Low degree of endemism and low levels of species richness

C. High degree of endemism and low levels of species richness

D. High degree of endemism and high levels of species richness

Answer: D

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35. Three Mile Island in Dauphin country , Pennsylvania, USA is known for

A. Its ground - breaking solid waste management technology

B. Its meltdown of nuclear reactor causing massive radiation leakage

C. Its initiative to control greenhouse emission and CEFs

D. Its massive afforestation to preserve biodiversity

Answer: B

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36. The sequence of bases on part of a molecule of DNA is shown.

TACAAATGCCA Sense strand ATGTTTACTGGT Antisense strand What is the sequence of

bases in mRNA transcribed from this sequence

?

A. ATGTTTACTGGT

B. AUGUUUACUGGU

C. TACAAATGACCA

D. UACAAAUGACCA

Answer: D

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37. Bt endotoxin that exists as inactive protoxin is converted in to active toxin once bollworm ingests it due to

A. Acidic condition of the gut

B. Optimum plasma osmolality in the gut

C. Action of digestive enzymes in the gut

D. Alkaline condition of the gut

Answer: D

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38. A person is injured in an accident and there is blood spurting out from his wrist. The most correct inference is that

A. He has an injured artery

B. He has an injured vein

C. He has an injured vena cave

D. He has an injured nerve

Answer: A

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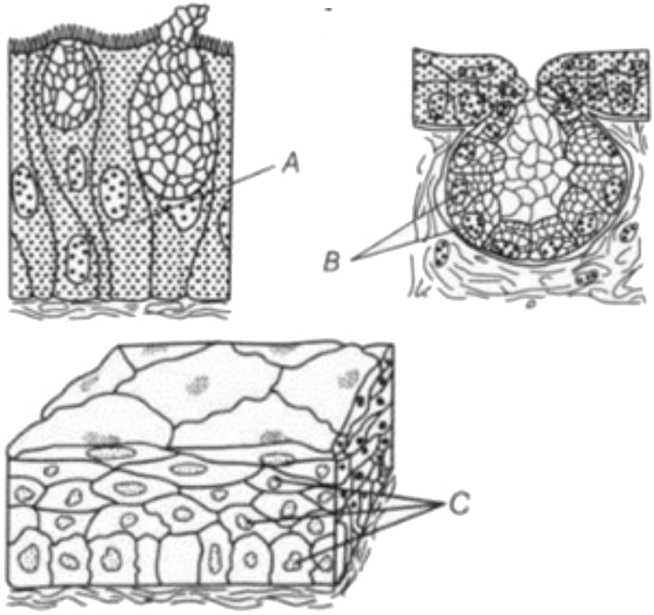
39. Which type of tissue is represented by the labels and choose the correct combination of option ?



A. A - cuboidal Epithelium , b - Compound Epithelium , C - Pseudo columnar Epithelium

B. A - Flattened Epithelium , B - Capsulated Epithelium , D - Glandular Columnar Epithelium

C. A - Multicellular Goblet Epithelium , B - Non - ciliated Columnar Epithelium, C - Multi-layered Squamous Epithelium

D. A - Unicellular Glandular Epithelium , B - Multicellular Glandular Epithelium , C - Compound Epithelium

Answer: D

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40. Which of these stages of mitosis is the shortest ?

A. Prophase

B. Metaphase

C. Anaphase

D. Telophase

Answer: C

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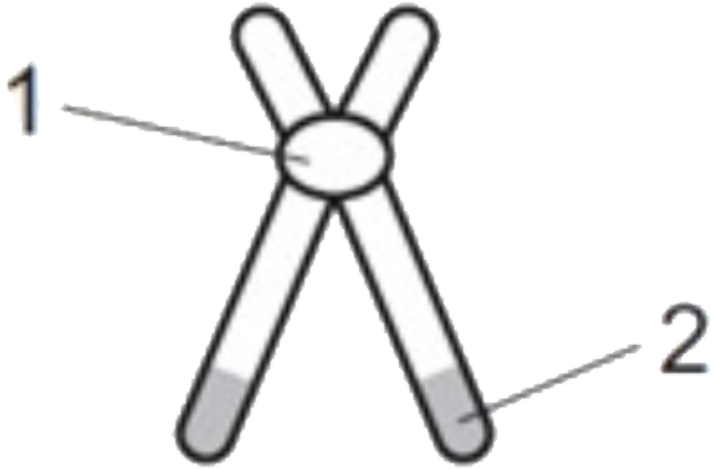
41. The figure below represents the structure of the chromosome



Select the correct option regarding the structure.

A. 1 - Centromere, 2 - Chromatid , and the number of chromosome is 1

B. 1 - Centromere, 2 - Telomere , and the number of chromosome is 2

C. 1 - Chromatid , 2 - Telomere , and the number of chromosome is 1

D. 1 - Telomere, 2 - Chromatid and the number of chromosome is 2

Answer: B

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42. Select the option with features that are applicable for a competitive inhibitor of an enzyme - catalyzed reaction .

	Binds to the active site	Changes shape of the enzyme	Similar shape to the substrate	Rate of reaction affected by the concentration of inhibitor
I.	Yes	No	Yes	Yes
II.	Yes	No	No	Yes
III.	No	Yes	Yes	No
IV.	No	Yes	No	No

A. I

B. II

C. III

D. IV

Answer: A

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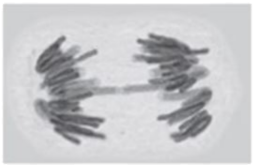
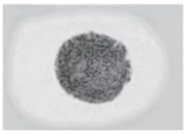
43. The photomicrographs show cells in various stages of the cell cycle. Identify the stage where semi - conservative replication of DNA take place.

A. 

B. 

C. 

D. 

Answer: C

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44. which of these muscles are not involved in normal inspection, normal expiration as well as forceful inspiration ?

A. Internal intercostal muscles

B. External intercostal muscles

C. Diaphragm

D. All three of these muscles

Answer: A

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45. XNA is a laboratory - made nucleic acid made of nucleotides in which one component has been replaced by chemical X. The chemical X is not found in nature. The part of the molecule responsible for coding is not changed . Which organic component of a DNA or RNA nucleotide has been replaced by X ?

A. Purine base

B. Phosphate group

C. Five - carbon sugar

D. Pyrimidine base

Answer: C

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46. Which of the following show a correct pair with respect to pBR322 ?

A. ori - Hind III

B. tet^R -BamHI, Sal I

C. amp^R - Pst , Pvu II

D. rop - Pvu I

Answer: B

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47. In most of the angiosperms , the mature anther at the time of dehiscence has

A. two lobes and four pollen sacs

B. one lobe and two pollen sac

C. two lobes and one pollen sac

D. two lobes and two pollen sacs

Answer: D

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48. Select the incorrect statement/s regarding downstream processing from the one given below.

I. The process occurs during the biosynthetic stage.

II. It is there to facilitate increased production

of desired product .

III. It helps to ensure sterile conditions during the manufacturing of the desired product.

IV. Collection of processes to ensure the desired product is ready for marketing.

A. I, II and III only

B. I, II and III IV

C. II and III only

D. I and IV only

Answer: A

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49. select the odd one from the following and select the correct option.

A. During the past decade, the temperature of Earth has increased by $0.6.^{\circ} C$.

B. Without the greenhouse effect, the average temperature at the surface of Earth would have been $-18.^{\circ} C$ rather than the present average of $-15.^{\circ} C$.

C. The rise in temperature is leading to deleterious change in the environment and resulting in odd. Climatic changes called El Nino effect.

D. More than one option is correct

Answer: C

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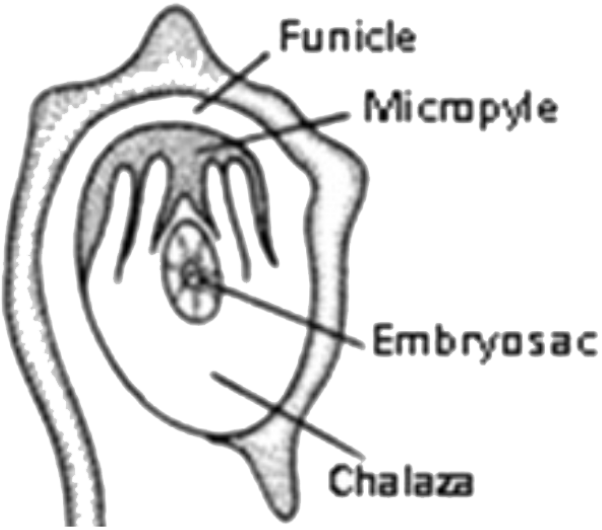
50. The type of ovule depicted in this diagram is



A. Campylotropous Ovule

B. Anatropous Ovule

C. Amphtiropous Ovule

D. Circinotropous Ovule

Answer: D

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51. which is the following microbe is responsible for commercial production of acid present in lime ?

A. Clostridium butylicum , a bacterium

B. Aspergillums niger , a fungus

C. Lactobacillus , a bacterium

D. Trichoderma polysporum , a fungus

Answer: B

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52. Select the odd one from the following and select the correct option.

A. Ptyalin

B. Maltase

C. Lactase

D. Sucrase

Answer: A

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53. select the incorrect statement about the phylum in which Obelia is placed.

A. They are mostly marine and radially symmetrical animals .

B. The have presence of Cnidoblast .

C. Some of the members shows metagenesis .

D. They have a central gastro - vascular cavity with a single opening , mouth on osculum.

Answer: D

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54. complete the following paragraph by selecting the correct options for the blanks A,B, and C from the options givens below.

Cells of the human body exhibit three types of movements namely amoeboid , ciliary , and muscular. Macrophages and leucocytes present in blood exhibit

..... A..... movement.

..... B ..... movement is seen in our internal tubular organs. Movements of our limbs, jaws etc., require .....C ..... movement.

A. A : amoeboid , B : muscular , C: ciliary

B. A : muscular, B : ciliary , C : amoeboid

C. A : amoeboid , B : ciliary , C: muscular

D. A : ciliary, B: amoeboid , C : muscular

Answer: C

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55. Read the following statements about hindbrain. Identify whether they are true or false and select the correct option after

referring to the given table .

A. The hindbrain consists of pons, cerebellum, and medulla.

B. The surface of the cerebellum is extremely convoluted.

C. The medulla consists of fibres that interconnect different regions of the brain.

D. Pons consists of centers that control respiration, gastric secretions , etc.

A. A : True , B : False , C : True , D : False

B. A : True , B : False , C : False , D: True

C. A : True , B : True , C : False , D : False

D. A : False , B : False , C : True , D: True

Answer: C

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56. Vertebrates are also called craniates as the brain is protected by the brain box . In humans the number of bones that from this brain box is

A. 4 paired and 2 unpaired bones

B. 2 paired and 4 unpaired bones

C. 3 paired and 2 unpaired bones

D. 4 paired bones

Answer: B

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57. Given below are steps involved in the mechanism of action of hormones. Arrange them in proper sequence and select the correct option.

I. Formation of the hormone - receptor complex .

II. Biochemical changes in the target cell.

III. Binding of the hormone with the receptor.

IV. Physiological responses in the target cell.

A. II, I, IV, III

B. III,I,II,IV

C. III,I,II,IV

D. I, III , IV , II

Answer: C

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58. A person has undergone vasectomy. Which of the following statements regarding him is correct ?

A. His semen won't have any sperms

B. His semen will contain sperms

C. His body will not produce any semen

D. His body will not produce any sperms

Answer: A

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59. Which of the following is correct regarding the largest part of the human brain ?

A. It maintains balance and coordination

B. It controls involuntary reflexes and actions

C. It contains nerve fibers connecting different regions of brain

D. It controls all motor and sensory activities.

Answer: D

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60. Read the statements given below and select the correct option

A. Atrial naturetic factor (ANF) is responsible for increasing the blood

pressure .

B. Gastrin stimulates the secretion of HCl and trypsinogen.

C. Erythropoietin is produced by Juxta - Glomerular cells of the kidney .

D. CCK acts only on the gall bladder.

Answer: C

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61. Bovine spongiform encephalopathy is caused by

A. an agent having RNA without protein coat

B. an agent having RNA with protein coat

C. an agent consisting of abnormally folded protein.

D. an agent having iII - defined nucleus with cell wall

Answer: C

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62. A modified form of adenine, a purine

A. was discovered from autoclaved having sperm DNA

B. is naturally found in plants and helps in preventing apical dominance

C. was isolated from corn kernels and coconut milk

D. is a synthetic compound which promotes cell division in plants

Answer: A

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63. which of these statements is correct about Eudorina ?

A. It is a green alga and is isogamous

B. It is a green alga and is anisogamous

C. It is a brown alga and is isogamous

D. It is a brown alga and is anisogamous

Answer: B

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64. The aestivation that may be seen in the sepals of family Papilionoideae is

A. vexillary

B. imbricate

C. contorted

D. all of these

Answer: B

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65. Which of these structures is not found in both a monocot root and a dicot stem ?

A. pith

B. polyarch xylem

C. parenchymatous pericycle

D. multi layered parenchymatous cortex

Answer: C

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66. The proteinaceous layer called pellicle and two flagella one long and one short are seen in organisms which are

A. unicellular , prokaryotic and are photosynthetic as well as heterotrophic

B. unicellular , prokarytic and are heterotrophic

C. unicellular , eukaryotic and are photosynthetic as well as heterotrophic

D. unicellular , eukaryotic and are heterotrophic

Answer: C

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67. Selaginella is a pteridophyte which

A. Produces micro and macro spores , has strobili and belong to the class Lycopsida

B. Produces micro and macro spores , doesn't strobili and belong to the class pteropsida

C. produces only one type of spore , doesn't have strobili and belong to the class Lycopsida

D. produces only one type of spore , doesn't have strobili and belong to the class pteropsida

Answer: A

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68. The correct different between the ovary of rose and China rose is

A. Rose has superior ovary while china rose has inferior ovary

B. Rose has inferior ovary while china rose has superior ovary

C. Rose has semi- inferior ovary while china rose has inferior ovary

D. Rose has semi- inferior ovary while china rose has superior ovary

Answer: D

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69. Read the following statements . The correct symbols filling the blanks A and B are Osmotic pressure of a concentrated solution .....A.....osmotic pressure of a dilute solution . Diffusion pressure deficit of a

concentrated solution .....B..... diffusion pressure deficit of a dilute solution

A. $(A):>$ and $(B):<$

B. $(A):<$ and $(B):>$

C. $(A):<$ and $(B):<$

D. $(A):>$ and $(B):>$

Answer: D

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70. Which of these statements is correct ?

A. Plastocyanin donates electrons to chl a - 700 in cyclic photophosphorylation but not in non - cyclic photophosphorylation but not in cyclic photophosphorylation

B. Plastocyanin donates electrons to chl a - 700 in non -cyclic photophosphorylation but not in cyclic photophosphorylation

C. Plastocyanin donates electrons to chl a - 700 both in cyclic photophosphorylation but not in non - cyclic photophosphorylation but not in non cyclic photophosphorylation

D. Plastocyanin doesn't donate electrons to chl a - 700 in either cyclic photophosphorylation but not in non - cyclic photophosphorylation or not in non cyclic photophosphorylation

Answer: C

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71. A specific hormone is responsible for causing a disease that is characterized by excessive urination . The urine analysis of such a person reveals that the urine is dilute , has high pH and secretion of hormone from

A. The gland which is heterocrine in nature

B. The gland which stores the hypothalamic

C. The gland situated on the dorsal side of the forebrain.

D. The gland which is influenced by the hypothalamic hormones

Answer: B

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72. Read the following statements and find out the incorrect statements.

a. Mons pubis is a cushion of fatty tissue covered by skin and pubic hair.

b. The labia minora are fleshy folds of tissue, which extend down from the mons pubis and surround the vaginal opening.

c. The opening of the vagina is often covered partially by a membrane called hymen.

d. The clitoris lies at the upper junction of two labia majora above the urethral opening .

e. The presence or absence of hymen is a

reliable indicator of virginity or sexual experience.

A. I, II and III

B. I and III

C. II, III and IV only

D. II and IV

Answer: B

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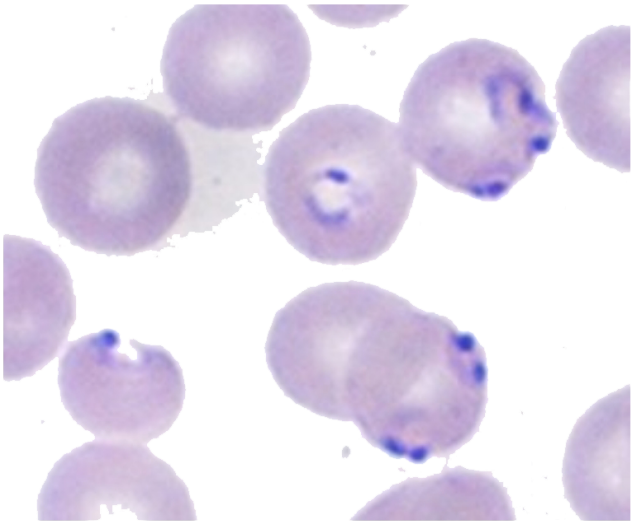
73. A patient blood smear show the following picture. Which disease is the patient suffering from ?



A. Malaria

B. Sickle cell anaemia

C. Thalassemia

D. AIDS

Answer: A

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74. In a gobar gas plant , methanogens convert

A. Complex insoluble polymers into methane

B. complex soluble polymers into methane

C. acetic acid into methane

D. simple insoluble polymers into methane

Answer: C

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75. When any plane passing through the central axis of the body divides the organism into two identical halves , then this is called

A. Radial symmetry

B. Bilateral symmetry

C. Central symmetry

D. Axial symmetry

Answer: A

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76. Which of the following is correct ?

A. woman conceives as well as become pregnant on the day of fertilization

B. A women conceives as wall as becomes pregnant about a week after fertilization

C. A women conceives on the day of fertilization while she becomes pregnant a week after fertilization

D. A women become pregnant on the day of fertilization while she conceives a week after fertilization

Answer: C

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77. A husband and wife have normal vision, although both of their fathers are red - green colour blind , which is inherited as an x - linked recessive trait .

What is the probability that their first child will be ?

i. A normal son

ii. A carrier daughter

iii. A colour - blind son

iv. A colour - blind daughter

A. $i = \frac{1}{4}, ii = \frac{1}{4}, iii = \frac{1}{4}, iv = \frac{1}{4}$

B. $i = \frac{1}{4}, ii = \frac{1}{4}, iii = \frac{1}{4}, iv = \frac{0}{4}$

C. $i = \frac{0}{4}, ii = \frac{1}{2}, iii = \frac{1}{4}, iv = \frac{1}{4}$

D. $i = \frac{1}{4}, ii = \frac{1}{2}, iii = \frac{1}{4}, iv = 0$

Answer: B

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78. LNG - 20 is a hormone - releasing IUD. It is called LNG - 20 because

A. it releases levonorgestrel , a synthetic estrogen

B. it releases levoprogestrol , a synthetic estrogen

C. it releases levonorgestrel , a synthetic progesterone

D. it releases levoprogestrol , a synthetic progesterone

Answer: C

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79. Read the following statements about acquired immunity. Which of the following statements are correct ?

I. Acquired immunity is a non - specific type of immunity .

II. The primary and secondary immune responses are carried out with the help of lymphocytes present in our blood.

III. Each antibody molecules has two smll heavy chains and two longer light chains respectively.

IV. Cell - mediated immunity is mediated by T - lymphocytes.

A. I and III

B. I, II and IV

C. II, III and IV

D. II and IV

Answer: D

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80. The glans penis is made up to

A. corpus sponogiosum

B. corpus cavernosum

C. corpus spongiosum and corpus cavernosum

D. two corpora cavernosa and one corpus spongiosum.

Answer: A

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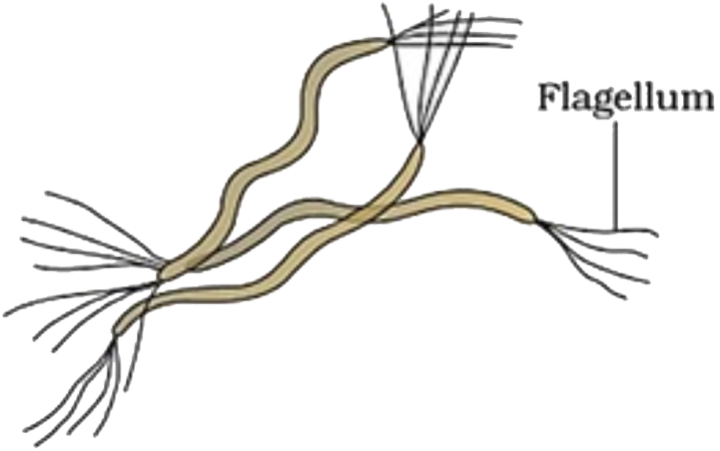
81. Which of the following is the correct description of the bacterium given below ?



A. Amphitrichous spirillum

B. Peritrichous spirillum

C. cephalotrichous spirillum

D. Monotrichous vibrio

Answer: A

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82. In a dorsiventral leaf , protoxylem is situated towards the (I) surface and Protophloem towards the (II) surface in the vascular bundle.

A. I : adaxidal and II: adaxial

B. I : abaxidal and II: abaxial

C. I : abaxial and II: abaxial

D. I: adaxial and II: abaxial

Answer: D

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83. Which of these are false statements about calcium ?

I. It is required during the formation of the cell wall.

II. It accumulates in younger leaves.

III. Spindle fibers can't be formed with it.

IV. It is absolutely necessary for the synthesis of auxins.

A. I and III

B. II and IV

C. II, III and IV

D. I, II and IV

Answer: B

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84. Maximum absorption by chlorophyll - a is seen in (P) .The maximum rate of photosynthesis is seen in (Q) . The correct world filling (P) and (Q) are

A. (P) : red light and (Q) : red light

B. (P) : blue light and (Q) : blue light

C. (P) : blue light and (Q) : red light

D. (P) : red light and (Q) : blue light

Answer: C

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85. In guava plant

A. leaves show opposite phyllotaxy while flowers are epigynous

B. leaves show opposite phyllotaxy while flowers are hypogynous

C. leaves show alternate phyllotaxy while flowers are epigynous

D. leaves show alternate phyllotaxy while flowers are hypogynous

Answer: A

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86. How many $NADPH_2$ and ATP molecules are produced in a single TCA cycle ?

A. 3 and 1 respectively

B. 2 and 1 respectively

C. 0 and 1 respectively

D. 3 and 2 respectively

Answer: C

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87. Which of the following options shows a pair of antagonist Phytohormones with respect to the given feature ?

A. Parthenocarpy : Auxin antagonist to Gibberellin

B. Abscission : Ethylene antagonist to Abscisic acid

C. Seed Germination : Gibberellin antagonist to Abscisic acid

D. Senescence : Gibberellin antagonist to Cytokinin

Answer: C

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88. Arrange these respiratory substrates used in aerobic respiration in increase order of their respiratory quotients.

A. Protein - Triplamitin - Oxalic acid - Glucose

B. Protein - Triplamitin - Glucose -Oxalic acid

C. Triplamitin -Protein -Oxalic acid - Glucose

D. Triplamitin -Protein -Glucose- Oxalic acid

Answer: D

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89. In Aspergillus,

A. the sexual spores are produced endogenously while the asexual spores are produced exogenously

B. the asexual spores are produced endogenously while the sexual spores

are produced exogenously

C. the asexual and sexual spores are formed endogenously

D. the asexual and sexual spores are formed exogenously

Answer: A

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90. What kind of modification for propagation is seen in ginger and banana ?

A. Modification of tap root for food storage

B. Modification of adventitious root for food storage

C. Modification of stem for food storage

D. Zaminkand as modification of root and turmeric modified stem

Answer: C

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