BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 93

Biology

1. Mark the incorrect answer regarding the number of structure in cockroach.

A. Male has three Phallomeres

B. 14-16 eggs in each ootheca

C. Each compound eye consist of 2000 ommatidia

D. 40-80 malpighian tubules

Answer: D

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2. Level of estrogen and progesterone are minimum at the time of

A. follicular phase

B. ovulation

C. secretory phase

D. onset of menstrual phase

Answer: D

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3. Common cold differs from pneumonia in, that

A. the causative agent for common cold is bacteria and while for pneumonia is virus

B. Common cold affects upper respiratory tract while in pneumonia lower respiratory tract including lung is infected

C. a nutritional deficiency can lead to cold while pneumonia is an infectious disease

D. there is no vaccine available to prevent either of the two diseases

Answer: B

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4. The spongocoel of Leucosolenia is lined with

A. Porocytes

B. choanoctyes

C. amoebocytes

D. spicules

Answer: B

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5. Given below are few statements related to the nervous system. Find out the INCORRECT statement.

A. Organ of Corti is located on the tectorial membrane.

B. The membranous semi-circular canals of internal ear are suspended in the perilymph of the bony canals.

C. At the posterior pole of the eye lateral to the blind spot, there is a yellowish pigmented spot called macula lutea with a central pit called the fovea.

D. Along with the hypothalamus, the limbic system is involved in the regulation of sexual behavior, expression of emotional reactions and motivation

Answer: A

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6. Read the following statement and select the incorrect one amongst the following.

A. T_4 is the chief circulating form of throid hormone, but is less active than T_3

B. Acromegaly is usually associated with hypoglycemia and hypotension

C. Thyroxine promotes the body growth and metamorphosis in amphibians

D. Hypothalamus produces the hormone concerned with milk ejection.

Answer: B

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7. Towards the lateral side of shoulder, clavicle articulates with

A. acromion process of scapula

B. humerus

C. glenoid cavity of scapula

D. sternum

Answer: A

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8. Which of these is a drug of choice for AIDS treatment. ?

A. Rifampicin

B. Zidovudine

C. Streptomycin

D. Penicillin

Answer: B

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9. Bacillus thuringiensis (Bt) strains have been used for designing novel

A. bioinsecticidal plants

B. bio-mineralization process

C. biofertilizers

D. bio-metallurgical techniques

Answer: A

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10. Which of the following statements is INCORRECT?

I. Human kidneys can produce urine nearly six times more concentrated than the initial filtrate formed.

II. An increase in body fluid volume can switch on the osmoreceptors and stimulate ADH.

III. Substance like glucose, amino acids, Na^+ , etc., in the filtrate, are reabsorbed actively by the renal tubule whereas the nitrogenous wastes are absorbed by passive transport

IV. Each kidney has nearly one million complex

tubular structures called nephrons which are the functional units.

A. I and II

B. III and IV

C. I, II and III

D. II, III and IV

Answer: A

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11. Contraction of diaphragm increases the volume of the thoracic chamber in the ....(A).... axis while the contraction of external intercostal muscles increases the volume of the thoracic chamber in the ..... (B).... axis.

A. (A) : antero-posterior, (B) : antero-posterior

B. (A) : dorso-ventral, (B) : dorso-ventral

C. (A) : antero-posterior, (B) : dorso-ventral

D. (A) : dorso-ventral, (B) : antero-posterior

Answer: C

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12. The arrangement of heart values from the right to the left side is

A. Tricuspid value - Bicuspid value - Pulmonary semilunar value - Aortic Semilunar value

B. Tricuspid value - Pulmonary semilunar value - Bicuspid value - Aortic Semilunar value

C. Tricuspid value - Aortic Semilunar value - Bicuspid value - Pulmonary semilunar value

D. Tricuspid value - Pulmonary semilunar value - Aortic Semilunar value - Bicuspid value

Answer: D

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13. Common bile duct is form by the union of

A. right and left hepatic ducts

B. right and left cystic ducts

C. common hepatic duct and cystic duct

D. left hepatic duct and cystic duct

Answer: C

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14. Honey has high content of

A. laevulose

B. glucose

C. sucrose

D. galactose

Answer: A

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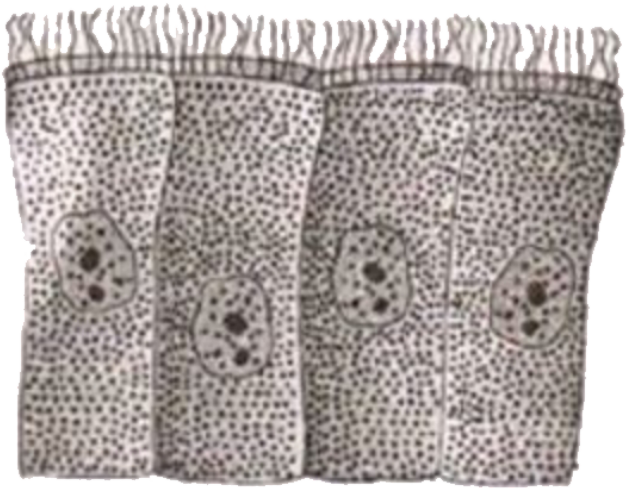
15. Given below is a diagrammatic representation of epithelium.



Choose the CORRECT option w.r.t. the location of this given epithelium.

A. PCT and DCT

B. Walls of blood vessels and air sacs

C. Bronchioles and fallopian tubes

D. Urinary bladder and nephrons of kidney

Answer: C

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16. Birth canal is formed by

A. uterus along with vagina

B. uterus along with cervix

C. cervical canal along with vagina

D. uterus , cervix and vagina

Answer: C

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17. Bronchoconstriction of smooth muscles is witnessed by asthma patients . It is triggered due to release of ..X.. and treated by ....Y...

A. X- histamine , Y-aldosterone

B. X- antihistamine Y - epinephrine

C. X- antihistamine Y - prednisolone

D. X- histamine , Y- adrenaline

Answer: D

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18. Which of the following represents the correct combination without any exception?

A.

Characteristics	Class
Mouth ventral; 5 -7 pairs of gills; skin with placoid scales; persistent notochord	Chondrichthyes

B.

Characteristics	Class
Sucking and circular mouth; jaws present, integument without scales; paired appendages	Cyclostomata

C.

Characteristics	Class
Body covered with feathers; skin moist and glandular; hindlimbs form wings; lungs with air sacs	Aves

D.

Characteristics	Class
Mammary gland; hair on body; pinnae; two pairs of limbs	Mammalia

Answer: D

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19. In brain, the region for perception of pain is located in

A. frontal lobe

B. Parietal lobe

C. temporal lobe

D. Occipital lobe

Answer: B

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20. Calcitonin

A. is secreted by the parathyroid glands

B. Causes blood calcium levels to decrease

C. insufficiency results in weak bones and tetany

D. levels increase when blood Calcium level decrease

Answer: B

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21. Scapula is a arge triangular flat bone situated in the dorsal part of the thorax between

A. First and fifth ribs

B. Second and seventh ribs

C. third and seventh ribs

D. Second and sixth ribs

Answer: B

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22. Hormone releasing IUD is

A. Lippe's loop

B. Multi load 375

C. CuT

D. LNG-20

Answer: D

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23. Polyethylene glycol method is used for

A. biodiesel production

B. Seedless fruits production

C. gene transfer without a vector

D. energy production from sewage

Answer: C

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24. The glomerular filtrate contains

A. urea , uric acid, globulin

B. urea , vitamin C , RBC

C. urea , uric acid, albumin

D. urea , uric acid, glucose and water

Answer: D

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25. Which of the following factors are favorable for the formation of oxyhaemoglobin ?

I. high pO_2

II. low pCO_2

III. lesser H^+ concentration

IV. lower temperature

A. I,II and III

B. I,III and IV

C. I and IV

D. I, II , III and IV

Answer: D

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26. How many nucleotides are used for the synthesis of A chain and B chain of insulin?

A. 90 for A and 63 for B

B. 63 for A and 90 for B

C. 92 for A and 61 for B

D. 60 for A and 61 for B

Answer: B

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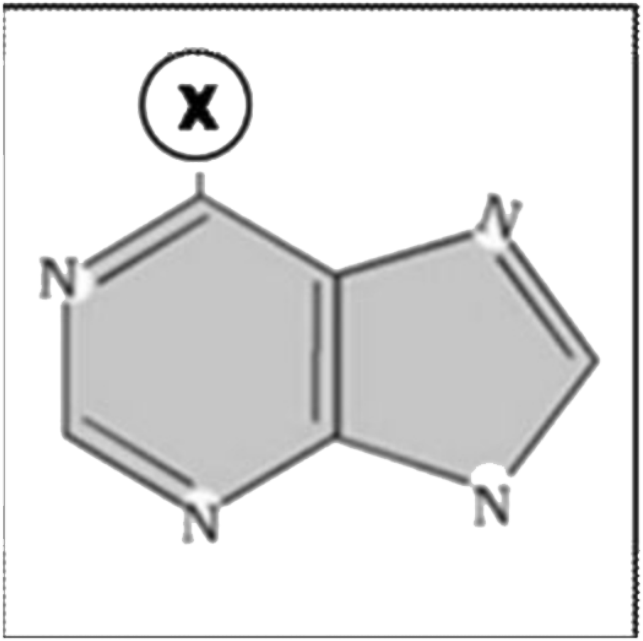
27. The given diagram is of adenine . What group should be present in the spot marked X

?



A. $-CH_3$

B. $-NH_2$

C. $-COOH$

D. $-CH_2OH$

Answer: B

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28. The end of the T-wave in ECG mark the

A. beginning of Ventricular systole

B. end of Ventricular systole

C. beginning of atrial diastole

D. end of atrial diastole

Answer: B

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29. The pancreatic juice contains enzymes

A. trypsinogen, chymotrypsinogen , procarboxypeptidases, amylase, lipases and nucleases.

B. trypsinogen, chymotrypsinogen , procarboxypeptidases, aminopeptidases, amylases, lipases and nucleases.

C. trypsinogen, chymotrypsinogen , procarboxypeptidases, aminopeptidases, amylases, lipases and nucleases , nucleotidases , nucleosidases .

D. trypsinogen, chymotrypsinogen , procarboxypeptidases, amylases, lipases, pepsinogen and nucleases ,

Answer: A

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30. In human sperm , nebenkern refers to

A. Post acrosomal sheath

B. Mitochondrial spiral

C. Proximal centriole

D. Axial filament

Answer: B

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31. Select the CORRECT statement from the ones given below.

A. Barbiturates when given to criminals make them tell the truth

B. Morphine is often given to persons who have under gone surgery as a pain killer

C. Chewing tobacco lowers blood pressure and heart rate

D. Cocaine is given to patients after surgery as it stimulates recovery

Answer: B

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32. Which of these statements about the adrenal cortex is true ?

A. It secretes some androgens

B. The zonaglomerulosa secretes aldosterone

C. The zonafasciculata is stimulated by ACTH

D. All of the above

Answer: D

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33. Restriction endonuclease-

A. cuts the DNA molecule randomly

B. cuts the DNA molecule at specific sites

C. restricts the synthesis of DNA inside the nucleus

D. synthesizes DNA

Answer: B

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34. During protein synthesis which of the following is TRUE?

A. Mn^{++} is required for completion of ribosome

B. 3' of mRNA enters the ribosome

C. 23s rRNA in bacteria is the enzyme ribozyme that act as catalyst for the formation of peptide bond.

D. EF- Ts helps on codon-anticodon recognition.

Answer: C

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35. How many chromosomes present in gymnospermic endosperm if leaf has 20 chromosomes ?

A. 6

B. 12

C. 18

D. 24

Answer: A

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36. A type of cell called a lymphocyte makes proteins that are exported from the cell. It is possible the track the path of these proteins with in the cell by lebeling them with

radioactive isotopes. Which of the following might be the path of the protein from the site where its polypeptides are made to the lymphocyte's plasma membrane?

A. RER $\rightarrow$ Golgi body $\rightarrow$ Plasma membrane

B. Golgi body $\rightarrow$ RER $\rightarrow$ plasma membrane

C. SER $\rightarrow$ Lysosome $\rightarrow$ Plasma membrane

D. Nucleus $\rightarrow$ Golgi body $\rightarrow$ RER $\rightarrow$ Plasma membrane

Answer: A

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37. At which stage of meiosis does the genetic constituion of gametes is finally decided

A. Metaphase-I

B. Anaphase-II

C. Metaphase-II

D. Anaphase-I

Answer: D

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38. The stem of Maize and Sugarcane have support roots coming out of the lower nodes of stem. They are called

A. Prop roots

B. Stilt roots

C. Pneumatophores

D. Adventitious roots

Answer: B

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39. How many species of animals have been recorded from India?

A. Twice of the plant species

B. Half of the plant species

C. Equal to the fungi species

D. Both (A) and (C)

Answer: A

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40. Carbon monoxide is pollutant as it:

A. inactivates nerves and causes numbness

B. inhibits glycolysis

C. combines with oxygen and shifts oxygen dissociation curve

D. combines with haemoglobin and displaces oxygen

Answer: D

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41. Parthenocarpic fruits cannot be produced by application of

A. IAN

B. 2, 4-D

C. ABA

D. IBA

Answer: C

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42. Which root will form a new plant naturally?

A. Sweet potato

B. Dahlia

C. Both (a) and (b)

D. Azadirachta

Answer: C

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43. Albuminous seeds are produced in:

A. Wheat, Maize, Paddy

B. Sugarcane, Barley, Rye

C. Castor, Coconut, Poppy

D. All of these

Answer: D

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44. Which of the following combinations is correct for wheat

A. Genus Triticum, family Poaceae, order Poales, Class Dicotyledonae.

B. Genus Triticum, family Poaceae, order Sapindales, class Monocotyledonae.

C. Genus Triticum, family Poaceae, order poales, class Monocotyledonae.

D. Genus Triticum, family Anacardiaceae, order Poales, class Monocotyledonae.

Answer: C

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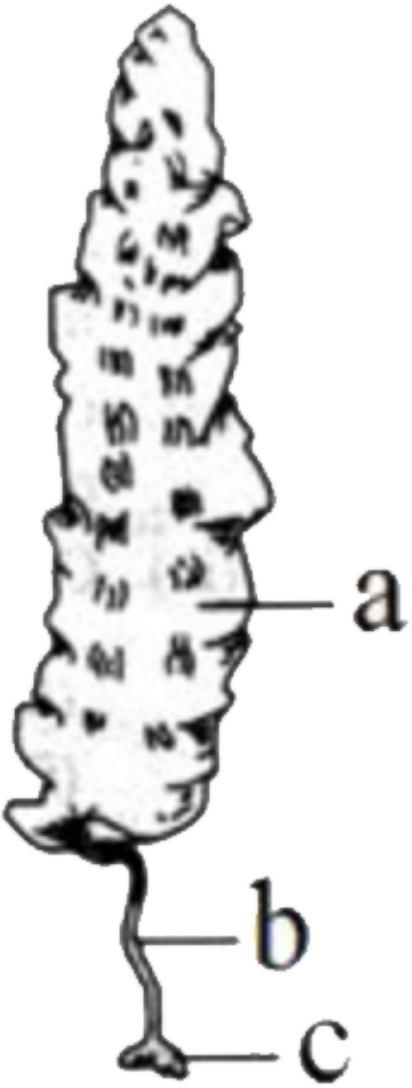
45. Find out the correct matching:



A. a-frond, b-stipe, c-holdfast

B. a-stipe, b-frond, c-holdfast

C. a-frond, b-holdfast, c-stipe

D. a-stipe, b- holdfast, c-frond

Answer: A

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46. The nucleolus is an important site for

A. Lipid synthesis

B. DNA synthesis

C. ribosomal protein synthesis

D. ribosomal RNA synthesis

Answer: D

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47. Which of the following describes the characters of the family Fabaceae?

A. pinnately compound leaf, zygomorphic flower, racemose

B. reticulate venation, zygomorphic, cymose

C. estipulate, actinomorphic, synandrous

D. alternate leaves, bisexual, bicarpellary

Answer: A

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48. Select the MISMATCHED pair out of the following.

A. Radial vascular bundle - xylem and phloem on different radii

B. Bicollateral vascular bundle - phloem present on the both side of xylem

C. Open vascular bundle - phloem surrounds xylem

D. Conjoint vascular bundle - xylem and phloem on same radii

Answer: C

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49. DPD=

A. $OP \times TP$

B. $OP \times TP$

C. OP - WP

D. TP - WP

Answer: C

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50. The nodules in a plant root where nitrogen fixing bacteria live forms from cells of the

A. Epidermis

B. Cortex

C. Endodermis

D. Vascular cylinder

Answer: B

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51. Thylakoids removed from chloroplasts were kept in illuminated culture having CO_2 and water. It did not produce sugar because of

A. absence of enzymes

B. non-linking of PS I and PS II

C. absence of light trapping molecules

D. non formation of assimilatory power

Answer: A

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52. Consider the first reaction of TCA cycle.

Acetyl $CoA + OAA + H_2O \xrightarrow[\text{synthase}]{\text{Citrate}} A + CoA$

What is true about compound A?

A. First product of TCA cycle

B. Tricabxoylic acid and six carbon compound

C. It undergones reorganisation in the presence of enzyme aconitase to from cis-aconitate

D. All of these

Answer: D

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53. Seedlings grown in darkness

A. they are of the same size as those grown in light

B. they are much healthier than those grown in light

C. they are similar to those grown in light

D. they are taller than those grown in light

Answer: D

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54. Arrange the various proteins involved DNA replication in the correct sequence they are used.

(i) single strand binding proteins

(ii) Topoisomerase

(iii) Phosphorylase

(iv) DNA ligase

(v) Helicase

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

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

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

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

Answer: A

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55. In himgiri, karan Rai, Pusa Gaurav, Pusa sem-2, Pusa snowball k-1 , pusa a-4 and pusa komal, how many crops are diseas resistance and pest resistance respectively?

A. 3,4

B. 4,3

C. 2,5

D. 6,1

Answer: B

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56. Antibiotics have greatly improved our capacity to treat deadly diseases such as

A. Plague, whooping cough, polio

B. Plague, polio, AIDS, whooping cough, diphtheria and leprosy

C. Plague, AIDS, whooping cough, diphtheria

D. Whooping cough, diphtheria and leprosy

Answer: D

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57. If a population of 50 Paramecium present in a pool increases to 150 after an hour, what would be the growth rate of population ?

A. 5 per hour

B. 50 per hour

C. 200 per hour

D. 100 per hour

Answer: D

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58. Given below is one of the types of ecological pyramids.

This type represents

A. pyramid of numbers in a grassland

B. pyramid of biomass in a fallow land

C. pyramid of biomass in a lake

D. energy Pyramid in a spring

Answer: C

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59. Choose the correct pair from the following

.

A. Environment Act - 1986

B. Montreal protocol - 1997

C. JFM – 1731

D. Air pollution control Act - 1974

Answer: A

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60. Choose the incorrect statement about the plasma membrane.

A. The bilipid layer is made up of phosphoglycerides.

B. The membrane of the erythrocyte has approximately 40 per cent protein and 52 per cent lipids

C. Peripheral proteins lie on the surface of membrane while the integral proteins are partially or totally buried in the membrane.

D. The fluid nature of the membrane is important for functions like cell growth and formation of intercellular junctions.

Answer: B

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61. The minimum number of meiotic divisions to obtain 1000 pollen of wheat are

A. 250

B. 500

C. 1000

D. 1250

Answer: A

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62. Match Column -I with column-II and select the CORRECT option from the codes given below

	Column – I		Column – II
(P)	Vessels	(i)	Cells are living, with thin cellulosic cell walls
(Q)	Tracheids	(ii)	Cells possess highly thickened walls with obliterated central lumen
(R)	Xylem fibres	(iii)	Individual members are interconnected Cells are living, with thin cellulosic cell walls
(T)	Xylem parenchyma	(iv)	Elongated tube-like cells with thick, lignified walls and tapering ends

A. (P) – (iv), (Q) – (iii), (R) – (ii), (S) – (i)

B. (P) – (iii), (Q) –(iv) , (R) –(ii) , (S) – (i)

C. (P) –(ii) , (Q) – (iv), (R) –(iii) , (S) – (i)

D. (P) – (iv), (Q) –(ii) , (R) –(iii) , (S) – (i)

Answer: B

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63. For effective functioning of PS II, the ions required are

A. Mn^{+}, Cl^{-}

B. Mg^{+} and NO^{-3}

C. Fe^{+} and Cl^{-}

D. K^{+} and Na^{+}

Answer: A

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64. All of the following processes can release CO_2 except

A. alcoholic fermentation

B. oxidative decarboxylation and Krebs' cycle

C. oxidative phosphorylation

D. Conversion of α - ketoglutaric to succinic acid

Answer: C

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65. Euchromatin is:

a. Loosely packed b. Stains light c. Transcriptionally active d. Early replicating

Choose the option with the correct choice of characters.

A. a and c only

B. a, b, c, and d

C. b, c, and d only

D. a, b, and c only

Answer: B

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66. BOD refers to:

A. The amount of the oxygen that would be consumed to oxidize all the inorganic matter in one liter of water

B. The amount of the oxygen that would be consumed if all the organic matter in one liter of water were oxidised by bacteria.

C. The amount of the oxygen that would be consumed if all the inorganic matter in one liter of water were oxidised by bacteria.

D. The amount of the oxygen that would be produced if all the organic matter in one liter of water were oxidised by bacteria.

Answer: B

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67. In a graph of population, on x-axis time and on y-axis population is plotted. A parallel line to x-axis shows:

A. Natality equal to mortality

B. Natality decreases mortality increases

C. Natality constant mortality increases

D. Natality increases mortality decreases

Answer: A

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68. What proportion of individuals will have the genotype PpQQRrSstt if their parents had genotypes PPQqRRssTt and PpQQrrSSTt ?

A. $1/8$

B. $1/16$

C. $1/256$

D. $1/64$

Answer: B

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69. The soil which is used in polishing , filtration of oils and syrups are made of

A. cellulosic plates on surface of dinoflagellates

B. cell wall of chrysophytes

C. cell body of desmids

D. extremely resistant spores of slime moulds

Answer: B

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70. Identify the family which shows the following diagnostic features.

Flowers pentamerous, gynoecium-bicarpellary,syncarpous, ovary placed obliquely , placentation axile , placenta swollen.

A. Solanaceae

B. Leguminosae

C. Papilionaceae

D. Liliaceae

Answer: A

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71. Why are amino acids also called α - amino acids ?

A. They have α - carbon with amino and acid group.

B. They are rotated clockwise.

C. They are rotated anti - clockwise

D. They rotate the plane of polarized light to the right.

Answer: A

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72. In flowering plants archesporium gives rise to

A. only the wall of the sporangium

B. tetrad of haploid microspores

C. wall and the tapetum

D. only tapetum and sporogenous cells

Answer: B

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73. A DNA sequence undergoes three subsequent point mutations which result in subsequent changes in transcription of mRNA as shown below:

select the correct sequence of point mutations that occurred in the DNA.

A. Missense mutation - Frame shift mutation - Nonsence mutation

B. Silent mutation - Nonsense mutation - Frame shift mutation

C. Silent mutation - Frame shift mutation - Nonsense mutation

D. Missense mutation - Frame shift mutation - Silent mutation

Answer: C

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74. One of the most important differences in the environmental condition of primitive earth and present - day earth is :

A. There was no water present in primitive earth

B. The primitive earth's atmosphere was of reducing type

C. There was no atmosphere in the primitive earth

D. Hydrogen was present in free state in primitive earth

Answer: B

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75. Which of the following statement is INCORRECT ?

A. The pioneer community in hydrosere are phytoplanktons.

B. The climax community remains stable even if environment changes

C. Both hydrarch and xerarch successions lead to mesic conditions.

D. As succession proceeds, the number and type of animals and decomposers changes.

Answer: B

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76. If mother's blood group is A and father's blood group is B , child's blood could be

A. A, B, AB

B. A, B

C. A, B , AB, O

D. A, AB

Answer: C

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77. The Amazon rainforest is being cut and cleared for cultivating .....or for conversion to .....for raising beef cattle.

A. tobacco, grassland

B. grassland, barren land

C. soyabeans, grassland

D. grassland , soyabean

Answer: C

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78. The characteristic pigment of Cyanobacteria is

A. chlorophyll a

B. fucoxanthin

C. phycocyanin

D. chlorophyll d

Answer: A

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79. In the special mode of reproduction observed in lemons, the embryos develop directly from the

A. nucellus

B. zygote

C. synergids or antipodals in an embryo sac

D. accessory embryo sacs in the ovule.

Answer: A

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80. Morgan worked with Drosophila melanogaster because.

i) they complete their life cycle in two months.

ii) male and female are easily distinguishable.

iii) a single mating could produce a large number of progeny flies.

iv) it has many types of hereditary variations that can be seen with low power microscopes.

A. i,ii

B. ii, iii , iv

C. i,ii , iii

D. i,ii,iii,iv

Answer: B

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81. Refer to the figures of skull given below and indentify the one which has evolved recently.

A. 

B. 

C. 

D. 

Answer: D

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82. Which statement below best describes the ways that energy and pesticides are transferred between levels in food chains ?

A. Available energy increases and pesticide concentrations increase as you move up a food chain.

B. Available energy decreases and pesticide concentrations increase as you move up a food chain.

C. Available energy decreases and pesticide concentrations decrease as you move up a food chain.

D. Available energy increases and pesticide concentrations decrease as you move up a food chain.

Answer: B

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83. 'Loss of rivets on the wings" signifies..... in ecosystem according to "rivet popper" hypothesis.

A. causing any species to become extinct

B. proper functioning of ecosystem

C. extinction of key species that drives major ecosystem

D. weak species

Answer: C

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84. In some fungi such as....., the fusion of two haploid cells immediately results in diploid cell while in other group of fungi like ....., an intervening dikaryotic stage occurs, called dikaryophase.

A. Phycomycetes , Basidomycetes

B. Basidomycetes, Ascomycetes

C. Ascomycetes, Phycomycetes

D. Phycomycetes , Deuteromycetes

Answer: A

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85. Which of the following flowers is usually NOT used for the laboratory study of pollen germination ?

A. Crotolaria

B. Vinca

C. Balsam

D. Cucumber

Answer: D

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86. Select the WRONG pair from the following

A. 47, XXY - characteristic palm crease

B. trisomy of 21 - retarded mental and physical development

C. phenylketonuria - mental retardation

D. 45, XO - sterility

Answer: A

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87. The ratio of methane, ammonia and hydrogen is Stanley Miller's experiment was

A. $3:1:2$

B. $2:1:2$

C. $1:2:1$

D. $5:4:1$

Answer: B

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88. Which of the following statement is FALSE ?

A. TMV has a double stranded RNA molecule.

B. Most plant viruses are RNA viruses.

C. Bacteriophage has a double stranded DNA molecule.

D. Most animal viruses are DNA viruses.

Answer: A

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89. Select the INCORRECT statement from the following

A. Many insects may consume pollen or nectar without bringing about pollination

B. In some species, pollen release and stigma receptivity are not synchronised.

C. In several species, such as papaya, male and female, flowers are present on different plants.

D. Pollination always guarantees the transfer of the right type of pollen.

Answer: D

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90. The height of a plant is controlled by three genes. The maximum height in the species is 24 inches , wherease the minimum height in the species is 6 inches . What would be the height of a plant of the same species whose genotype in AaBBcc?

A. 12 inches

B. 15 inches

C. 18 inches

D. 21 inches

Answer: B

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