BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 63

Biology

1. Comparable to angiosperms, which of the following algae exhibits diplontic life cycle

A. Spirogyra

B. Ectocarpus

C. Polysiphonia

D. Fucus

Answer: D

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2. Identify the sets of diseases in which , A: infections and B : Non-infectious :

A. A: Pneumonia , B: Malaria

B. A: Cancer , B : AIDS

C. A : AIDS , B: Rheumatoid arthritis

D. A : Cancer, B : Malaria

Answer: C

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3. Among flowers of Calotropis, tulip, Sesbania, Asparagus,Colchicine, Sweet, pea, petunia,Indigofera, Mustard, Soyabean, Tobacco and groundnut how many plants have corolla with valvate aestivation.

A. Six

B. Seven

C. Eight

D. Five

Answer: B

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4. Choose the correct statement/s regarding malaria :

(i) Malignant malaria is caused by plasmodium vivax .

(ii) Frequent chills and fever are caused by hemozoin.

(iii) Sporozoites reproduce sexually in hepatocytes.

(iv) Gametocyte develop in RBCs.

A. i and ii only

B. ii and iii only

C. iii and iv only

D. ii and iv only

Answer: D

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5. The largest tiger reserve in India is

A. Valmiki

B. Nagarjunsagar - Srisailam

C. Periyar

D. Nagarhole

Answer: B

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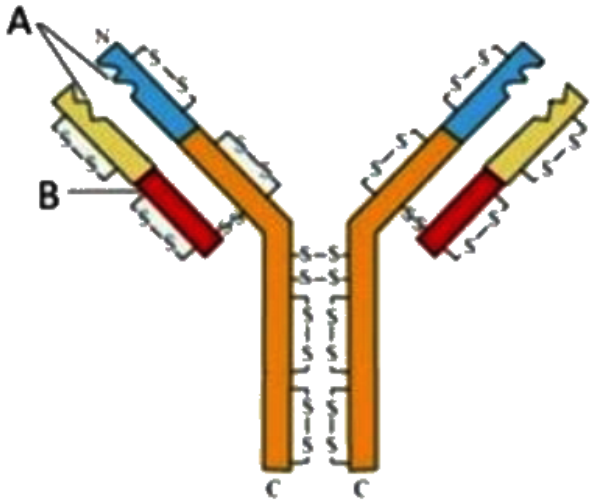
6. The given biomolecule is the part of the defense system which is responsible for..... response with A and B lebeled as :



A. Cell mediated response, l: Heavy chain ,II : Light chain

B. Humoral immune response , I : Antigen binding site , II : Light chain

C. Humoral immune response , I : Heavy chain , II : Light chain

D. Cell mediated response , I : Light chain ,II : Heavy chain

Answer: B

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7. During meiosis I , the chromosomes start pairing at

A. Zygotene

B. Pachytene

C. Diplotene

D. Leptotene

Answer: A

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8. the common chararteristics between tomato and potato will be maximum at the level of their

A. Family

B. Order

C. Division

D. Genus

Answer: A

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9. The first meiotic division during. Spermatogenesis takes place when :

A. Primary spermatocytes divide to from secondary spermatocytes

B. Secondary spermatocytes divide to from spermatids

C. Spermatogonia division to from primary spermatocytes

D. Spermatids to spermatozoa

Answer: A

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10. The anaphase-promoting complex is activated by

A. M cdk cyclin

B. G 1 cdk cyclin

C. S cdk cyclin

D. Transcription factor

Answer: A

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11. Which of the following statements regarding fertilization is/are correct ?

(i) The acrosome is filled with hydrolytic enzymes which help in dissolving the membrane of the ovum at the time of fertilization.

(ii) Vitelline membrane is the first membrane to be faced by sperms while trying to fuse with the ovum .

(iii) There must be synchronicity in the release of ovum and entry of sperm for the formation of zygote .

(iv) The meiotic division of the secondary oocyte is concluded with the entry of male gamete.

A. i and ii only

B. ii and iii only

C. i ,iii and iv

D. i,ii and iv

Answer: C

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12. Genteic variation in a population arises due to

A. Recombination only

B. Mutations as wall as recombination

C. Reproductive isolated and selection

D. Mutations only

Answer: B

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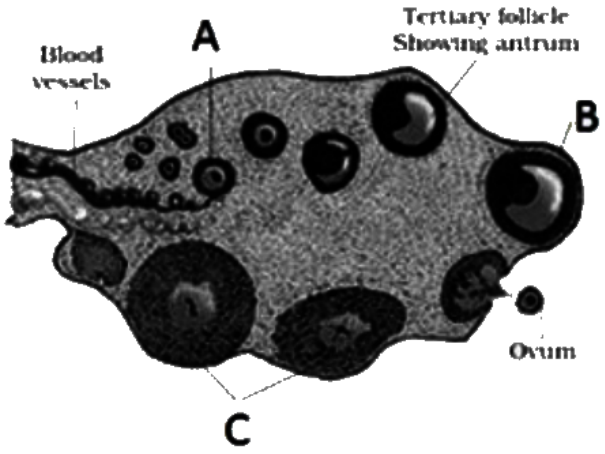
13. The figure shows a section of the human ovary . select the option which gives the correct identification of A,B,C .



(i) A is a group of primary follicles that gradually matures under the influence of LG and FSH

(ii) C is the Graafian follicles which starts producing a hormone celled progesterone.

(iii) C is a corpus luteum that secretes FSH.

(iv) B is the Graafian follicles which ruptures during mid of the cycle.

A. i and ii are correct

B. ii and iii are correct

C. i and iii are correct

D. i and iv are correct

Answer: D

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14. Which one of the following vectors is used to replace the defective gene in gene therapy ?

A. Retrovirus

B. Cosmid

C. Ri plasmid

D. Ti plasmid

Answer: A

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15. It was found that when the same environmental challenges was provided to the two sets of organisms who belonged to different ancestors and with different evolution patterns evolved similar phenotypic trait to survive better is called :

A. Natural selection

B. Adaptive radiation

C. Convergent evolution

D. Genetic drift

Answer: C

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16. Which of the following statements are correct regarding the process of RNA interference ?

(i) RNAi has been used to prevent nematode infestation of tobacco plants

.

(ii) RNAi takes place in all eukaryotic organisms as a method of cellular defense.

(iii) The method involves silencing of specific mRNA using a complementary dsDNA molecule that binds and prevents the translation of mRNA.

(iv) using retrovirus vectors , nematode–specific genes were introduced into the host plant .

A. (i) and (ii)

B. (i) and (ii)

C. (i) and (iii)

D. (ii) and (iv)

Answer: A

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17. Given below are four statements (A–D) each with one or two blanks. Select the option which correctly fills up the blanks.

Statements :

(A) Miller and Urey while creating probable conditions on the primitive earth in the laboratory used mixture of methane, water vapors , is hydrogen , and .....(i).....

(B) Information of extinct organisms can be obtained by the help of ....(i) .... evidence which can be very easily isolated from ....(ii) .... types of rocks .

(C) Darwin selection can be concluded with the introduction of ...(i)... in organisms .

(D) Natural selection can be concluded with the introduction of ..... (i).....in organisms.

A. Statement A-i Ammonia , statement B – i : Anatomical evidences

B. Statement C – I : Convergent evolution , statement D–i: Reproductive fitness

C. Statement B - ii: Sedimentary rocks , Statement D -i: Reproductive fitness

D. Statement B – ii : Metamorphic rocks , statement A–i: Ammonia

Answer: C

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18. The total number of progeny obtained through dihybrid cross of Mendel is 1280 in F_2 generation. How many are recombinants?

A. 240

B. 360

C. 480

D. 720

Answer: C

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19. What is common in all the three Funaria, Dryopteris and Ginkgo

A. Presence of archegonia

B. Well developed vascular tissues .

C. Independent gametophyte

D. Independent sporophyte

Answer: A

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20. Read the statements given below and identify the suitable option :

(i) Eye of Octopus and mammals are homologous.

(ii) sweet potato and photo are analogous.

(iii) Thorus of Bougainville and tendrils of Cucurbita are homologous

A. (i) is true and (ii) is false

B. (ii) is true and (iii) is false

C. (i) and (ii) both are true

D. (i) is false and (ii) and (iii) true

Answer: D

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21. Albuminous seeds store their reserve food mainly in

A. Endosperm

B. Cotyledons

C. Hypocotyl

D. Perispermi

Answer: A

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22. Ratna , Himgiri and pusa komal are the varieties of :

A. Maize , wheat and Cauliflower respectively

B. Rice , Maize and wheat respectively

C. Rice, wheat and cowpea respectively

D. Wheat , rice and cowpea respectively

Answer: C

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23. Megaspores are produced from the megaspore monther cells after

A. Mitotic division

B. Formation of a thick wall

C. Differentiation

D. Meiotic division

Answer: D

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24. A temporary family planning method based on the natural effect of breastfeeding on fertility is due to the high level of:

A. Progesterone

B. Prolactin

C. Estrogen

D. FSH

Answer: B

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25. Compensation point means

A. No photosynthesis .

B. Beginning of photosynthesis.

C. Equal rate of photosynthesis and respiration .

D. Excess of respiration ti compensate O_2 production.

Answer: C

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26. Removal of ring wood of tissue outside the vascular cambium from the tree trunk kills it because

A. Water cannot move up

B. Food does not travel down and root become starved

C. Shoot become starved

D. Annual rings are not produced

Answer: B

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27. Given below are the four methods (A – D) and their modes of achieving contraception . Select suitable match from the options given

below :

	METHOD		MODE OF ACTION
A	Condom	I	Prevents fixing of embryo
B	Tubectomy	II	Prevents deposition of sperm in female tract
C	Copper-T	III	Prevents ovulation
D	The pill	IV	Ovum does not reach towards fertilization site

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

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

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

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

Answer: B

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28. Which of the following is not a single flower ?

A. China rose

B. Petunia

C. Sunflower

D. Periwinkle

Answer: C

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29. Match the column -I with column-II and select the correct option from the codes given below :

METHOD		MODE OF ACTION
a WBC	*i*	Cardiac disc
b Adipose tissue	*ii*	Protects and support neurons
c Communication junctions	*iii*	Diapedesis
d Neuroglia	*iv*	Store fats

A. a-ii , b-iv , c-i, d-v

B. a-iii, b-iv, c-v, d-ii

C. a - iii, b - iv , c - i, d- ii

D. a -v , b - iv , c - ii, d - I

Answer: C

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30. The term 'glycocalyx' is used for

A. a layer present between cell wall and membrane of bacteria

B. Cell wall of bacteria

C. bacteria cell glyco-engineered to possess N–glycosylated proteins

D. a layer surroundings thee cell wall of bacteria

Answer: D

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31. Which of the following statements is correct

A. Sporopollenin can be degraded by enzymes

B. Sporopollenin in made up to inorganic materials

C. Sporopollenin can withstand high temperature as well as strong acids and alkalis

D. Sporopollenin can withstand high temperature but not strong acids

Answer: C

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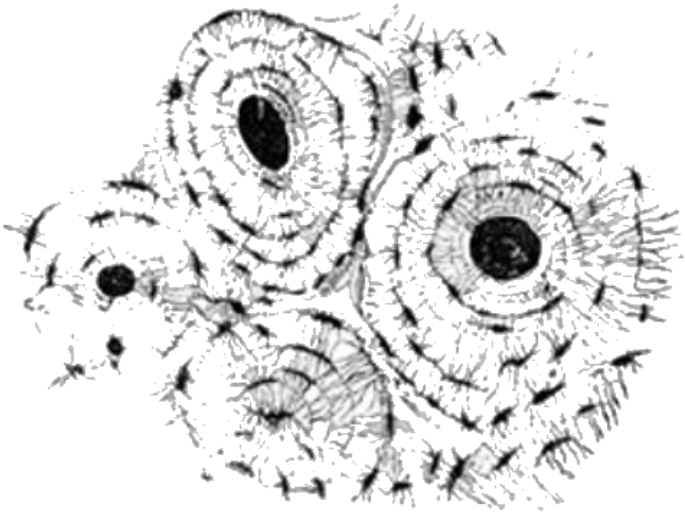
32. Given below is the diagrammatic sketch of a connective tissue . Identify the correct statement/s in relation to it :



(i) it possesses a hard and non-flexible matrix.

(ii) Matrix is filled with yellow elastin fibre .

(iii) specialized cell related to this tissue are

(iv) Repair capabilities are high.

A. i and ii only

B. ii and iii only

C. i ,ii and iii

D. i, iii,iv

Answer: D

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33. In mango and coconut , the fruits is known as a drupe.They develop from the monocarpellary superior ovary and are one-seeds . Identify the edible part of these two fruits .

A. Mesocarp and endocarp , respectively

B. Mesocarp in both

C. Mesocarp and endosperm , respectively

D. Mesocarp and epicarp , respectively .

Answer: C

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34. Which statement is wrong ?

A. Partial pressure of $CO_2(PCO_2)$ is higher in the air inside the lungs

B. Partial pressure of $O_2(PC_2)$ is higher in the air inside the lungs

C. Partial pressure of $O_2(PC_2)$ is lower inside the venous blood than in the air in the lung

D. Partial pressure of $CO_2(PCO_2)$ is higher inside the venous blood than in the air

Answer: A

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35. Syngamy can occur outside the body of the organism in

A. Mosses

B. Algae

C. Ferns

D. Conifers

Answer: B

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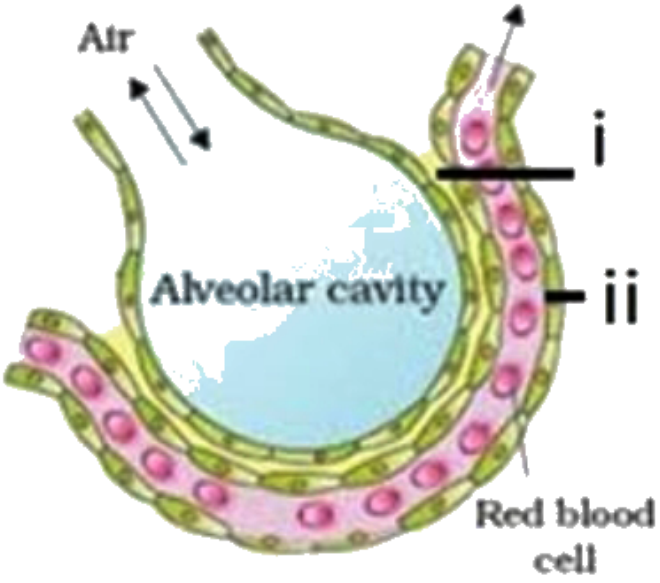
36. Sectional view of alveoli with a pulmonary capillary is shown below . Identify the right match in context to the options given below :



A. i. Basement membrane , ii: Endothelium

B. i. Endothelium, ii: Basement membrane

C. i. Squamous epithelium of alveoli , ii: Endothelium

D. i: Endothelium , ii squamous epithelium of alveoli

Answer: A

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37. In which one of the following sets of three items each belong to the category mentioned against them ?

A. Lysine , glycine, thiamine - Amino acids

B. Myosin , oxytocin and gastric - Hormones

C. Rennin , helicase and hyaluronidase - Enzymes

D. Optic nerve , oculomotor , vagus -sensory nerves

Answer: C

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38. ..... leads to accumulation of a dark coloured amorphous substance called ..... that is highly resistant to microbial action and undergones decomposition at an extremely slow rate.

A. Humification , humus

B. Mineralisation , minerals

C. Fragmentation , detritus

D. Leaching, unavailable salts

Answer: A

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39. GnRH, a hypothalamic hormone , needed in reproduction , acts on

A. Anterior pituitary gland and stimulates secretion of LH and oxytocin

B. Anterior pituitary gland and stimulates secretion of LH and FSH

C. Posterior pituitary gland and stimulates secretion of oxytocin and FSH

D. Posterior pituitary gland and stimulates secretion of LH and relaxin

Answer: B

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40. Read the following statements with respect to dicot stem and select the right choice .

i. The epidermis is covered with a thick layer of cuticle .

ii. The cells of endodermis are rich in starch grains.

iii. The pericycle is present on the inner side of endodermis and above the phloem in the of semilunar patches of sclerenchyma.

iv. The vascular bundles are arranged in a ring .

A. iii and iv are incorrect

B. i ,ii and iv are incorrect

C. i, ii and iii are correct

D. ii ,iii, and iv are correct

Answer: D

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41. The need of calcium in human body can be fulfilled by either absorption of calcium from the digested food or by reabsorption of calcium from renal tubules , which is accompanied by :

A. PTH

B. Thymosin

C. Mineral corticoids

D. Thyrocalcitonin

Answer: A

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42. Which organization publishes the ' Red Data Book ' ?

A. IUCN

B. UNEP

C. WWF

D. GEF

Answer: A

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43. Select the answer which correctly matched the endocrine gland /cells with the hormone it secretes and functions associated with it

A.

ENDOCRINE GLAND/CELLS	HORMONE	FUNCTION
β— Cells	Glucagon	Diabetes mellitus

B.

ENDOCRINE GLAND/CELLS	HORMONE	FUNCTION
Posterior lobe of pituitary	Vasopressin	Stimulate reabsorption of water and minerals

C.

ENDOCRINE GLAND/CELLS	HORMONE	FUNCTION
Adrenal cortex	Epinephrine	Deal with emergency situation

D.

ENDOCRINE GLAND/CELLS	HORMONE	FUNCTION
Anterior lobe of pituitary gland	Erythropoitein	Controls pigment formed in the skin

Answer: B

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44. ..... may move across the membrane by the process of simple diffusion along the concentration gradient , from higher concentration to lower concentration.

A. Polar molecules

B. Protein

C. Neutral solutes

D. Non polar molecules

Answer: C

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45. Saddle joint is present between .....i..... and hinge joint is present between .....ii.....

A. i. Carpal and metacarpal of thumb , ii : knee joint

B. i: Tarsal ,ii : between radius and ulna

C. i: Carpal and metacarpal of thumb , ii : shoulder

D. i: Hip joint ,ii : wrist

Answer: A

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46. Which of the following statements is incorrect?

A. The number of mitochondria in a cell do not correspond to the function of cell .

B. Mitochondria are common to both plant and animal cells .

C. Mitochondria and Chloroplast are semiautonomous organelle

D. Mitochondria divides by fission to increase its number

Answer: A

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47. Read the following statements is context to muscle tissue and choose the correct answer .

(i) Excessive exercise results in anaerobic Respiration and forms lactic acid .

(ii) As per sliding filament theory of muscle contraction, the filament that moves to shorten a muscule is actin .

(iii) The muscles primarily involved in locomotion is striated muscles .

A. i and ii only

B. ii and iii only

C. i and iii only

D. i , ii and iii only

Answer: D

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48. Which one of the following cellular parts is correctly described

A. Ribosomes those on chloroplasts are larger (80S) while those in the cytoplasm are smaller (70S)

B. Centrioles sites for active RNA synthesis

C. Thylakoids flattened membranous sacs forming the grana of Chloroplasts

D. Lysosomes optimally active at a pH of about 8.5

Answer: C

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49. Match the columns -I with column-II and select the suitable option from the following :

	Column I		Column II
i	Appendicular skeleton	a	Ilium, ischium and pubis
ii	F-actin	b	30 bones
iii	Coxal bone	c	Inflammation of joints
iv	Ribs	d	Polymer of 'G' actins
v	Arithritis	e	26 bones
		f	Bicephalic
		g	Rapid spasms

A. i-e,ii-d, iii-f,iv-b,v-g

B. i-e,ii-c,iii-a,iv-f,v-g

C. i-b,ii-d,iii-a,iv-f,v-c

D. i-b,ii-d,iii-a,iv-f,v-c

Answer: C

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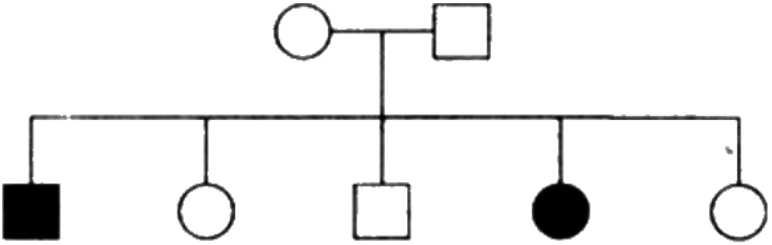
50. Given ahead is a pedigree chart of a family with five children . It shows the Inheritance of attached ear-lobes as opposed to the free ones. Which one is a following conclusions drawn is correct ?



A. The trait is Y - linked

B. The parents are heterozygous

C. The parents are homozygous recessive

D. The parents are homozygous dominant

Answer: B

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51. Given below is the ECG of a normal human . Identify the right match of wave and its associated electrical activity.

A. T-wave : depolarisation of ventricles

B. P-wa depolarisation of atria

C. Peak P and R : repolaristion of atria

D. QRS: replorisation of ventricles

Answer: B

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52. Match column - I with column-II and choose the correct option

Column - I	Column - II
A. Phoaephyceae	i. Funaria , sphagnum
B.Rhodophyceae	ii.Equisetum , Pteris
C.Pteridophyceae	III. Ectocarpus, Laminaria
D.Bryophytes	IV. Polysiphonia Gracilaria

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

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

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

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

Answer: C

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53. Identify the correct sequence of the cardiac cycle.

(i) Blood through the pulmonary vein and vena cava enters in left and right atria respectively.

(ii) AVN generates action potential for the ventricles.

(iii) SAN bring about atrial systole .

(iv) Ventricular systole pushes blood away from the heart .

A. $i \rightarrow ii \rightarrow iii \rightarrow iv$

B. $i \rightarrow iii \rightarrow ii \rightarrow iv$

C. $iii \rightarrow ii \rightarrow iv$

D. $iii \rightarrow iv \rightarrow ii \rightarrow i$

Answer: B

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54. Which of the following represents a diploid structure ?

A. Sporophyte and capsule of moss

B. Gametophyte , archegonia and egg of moss

C. Gametophyte , antheridia and sperm of moss

D. Sporophyte and spore of moss

Answer: A

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55. Which of the above statement is incorrect ?

A. The body of Platyhelminthes bears suckers and most of them are endoparasites.

B. The sedimentary from of colentrata is polyp.

C. Closed circulatory system respiratory pigment dissolved in plasma and setae are the unique features of annelida.

D. Spiny skin, closed circulatory system and developed sense organs are present in echinodermata .

Answer: D

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56. Select the incorrect statement from the following.

A. Diatoms are microscopic and float passively in water.

B. 'Diatomaceous earth' is formed by the cell wall of diatoms , which got deposited in ocean beds.

C. Diatoms are chief producers in the oceans.

D. The wall of diatoms are easily destructible

Answer: D

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57. Select the incorrect statement from the following.

A. Morels and truffles are poisonous mushrooms.

B. Yeast is unicellular and useful in fermentation.

C. Penicillium is multicellular and produces antibiotics.

D. Protists have photosynthetic and heterotrophic modes of nutrition

Answer: A

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58. Phylums and related characteristics are given below . Choose an appropriate option which fills the blank spaces .

PHYLUM/CLASS	EXCRETORY ORGANS	CIRULATORY ORGAN
1 Arthropoda	A	Open
2 B	Metanephridia	Open
3 Amphibia	C	Closed

A. A : Nephridia , B : Echinodermata , C : Metanephridia , D : Lungs

B. A : Flame cells , B : Annelida , C : Metanephridia , D : Book gills

C. A : Malpighian , B : Mollusca , C : Metanephridia , D : Book gills

D. A : Malpighian tubules , B : Mollusca , C : kidney , D : lung

Answer: D

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59. The correct floral formula of soyabean is :-

A. $\% + \overset{\nearrow}{\underset{o}{}} K_{(5)} C_{1+(2)+2} A_{(9)+1} \bar{G}_1$

B. $\% + \overset{\nearrow}{\underset{o}{}} K_5 C_{1+(2)+2} A_{(9)+1} G_{-1}$

C. $\% + \overset{\nearrow}{\underset{o}{}} K_{(5)} C_{1+2+(2)} A_{(9)+1} G_{-1}$

D. $\% + \overset{\nearrow}{\underset{o}{}} K_{(5)} C_{1+2+(2)} A_{(9)+1} G_{-1}$

Answer: C

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60. The tough protective layer of brain is .....(i).... and inner highly vascularised protective layer is .....(ii) .....

A. i : Piamater and ii : duramater

B. i : duramater and ii : Piamater

C. i : duramater and ii : arachnoid

D. i : Piamater and ii : sub-dural space

Answer: B

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61. Micropyle of seed is involved in the passage of

A. male gamete.

B. Pollen tube .

C. Water.

D. gases.

Answer: C

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62. Polyribosomes are aggregation of

A. ribosomes and rRNA.

B. Only rRNA.

C. Peroxisomes .

D. Several ribosomes held together by string or mRNA.

Answer: D

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63. Which of the following is the simplest amino acid

A. Alanine

B. Asparagine

C. Glycine

D. Tyrosine

Answer: C

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64. The inner layer of the eye is. ...(i) ... which contains layers of cells from inside to outside in an order (ii) :

A. i : Retina , (ii) Ganglion cells $\rightarrow$ Bipolar cells $\rightarrow$ photoreceptor cells

B. i : Cornea , (ii) Ganglion cells $\rightarrow$ photoreceptor cells $\rightarrow$ Bipolar cells

C. i : Retia, (ii) photoreceptor cells $\rightarrow$ Bipolar cells $\rightarrow$ Ganglion cells

D. i : Cornea , photoreceptor cells $\rightarrow$ Bipolar cells $\rightarrow$ Ganglion cells

Answer: A

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65. Cofactor (coenzyme) is a part of holoenzyme it is

A. loosely attached organic part .

B. loosely attached inorganic part .

C. accessory non protein substance attached firmly to protein part of holoenzyme.

D. It is non protein part attached loosely to protein part holoenzyme .

Answer: C

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66. The deficiencies of micronutrients not only affects growth of plants, but also vital functions such as photosynthetic and mitochondrial electron flow. Among the list given below, which group of three elements shall affect the most, both photosynthetic and mitochondrial electron transport ?

A. Co ,Ni, Mo

B. Ca , K, Na

C. Mn , Co, Ca

D. Cu, Mn, Fe

Answer: D

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67. The correct sequence of cell organelles involved in photorespiration is

A. Chloroplasts, mitochondrioa, and Peroxisomes .

B. Peroxisomes , chloroplasts ,and mitochondrioa.

C. Chloroplasts , Peroxisomes , and Mitochondrioa.

D. Chloroplasts , vacuole , and Peroxisome.

Answer: C

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68. The carbon dioxide acceptor in the Calvin cycle is

A. Phosphoenol pyruvate .

B. ribulose 1.5-diphosphate.

C. Phosphoglyceric acid.

D. ribulose monophosphate .

Answer: B

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69. Assertion: Glycolysis is the first step of respiration in which glucose completely breaks into CO_2 and H_20.

Reason: In this process. there is net gain of twenty four molecules of ATP.

A. Only statement-I is correct .

B. Only Statement-II is correct .

C. Both statement-I and statement -II are correct .

D. Both statement-I and statement-II are incorrect .

Answer: D

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70. R.Q. is ratio of

A. CO_2 produced to substrate consumed

B. CO_2 produced to O_2 consumed

C. Oxygen consumed to water produced

D. Oxygen consumed to CO_2 produced .

Answer: B

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71. The hormone involved in metabolism of food matetial in cereal gain during germinations is

A. Auxins

B. Gibberellins

C. Cytokinins

D. ABA.

Answer: B

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72. Which of the following statements is correct ?

A. Endothelium produces the microspores.

B. Tapetum nourishes the developing pollen.

C. Hard outer layer of pollen is called intine.

D. Sporogenous tissue is haploid.

Answer: B

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73. Wind pollinatied flowers are

A. Small , brightly coloured , producing large number of pollen grains .

B. Small, producing a layer number of dry pollen grains, feathery stigma.

C. large , producing abundant nectar and pollen .

D. Small, nectar producing , pollen are dry.

Answer: B

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74. Unisexuality of flowers prevents

A. geitonogamy , but not Xenogamy.

B. autogamy and geitonogamy .

C. autogamy, but not geitonogamy.

D. both geitonogamy and Xenogamy .

Answer: C

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75. Gause's principle of competitive exclusion states that:

A. no two species can occupy the same niche indefinitely for the same time if resources are limiting.

B. larger organisms exclude smaller ones through competition.

C. More abundant species will exclude the less abundant species through competition if resources are not limiting.

D. Competition for the sane resources exclude species having different food preferences.

Answer: A

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76. Which kind of population interaction is found between organism showing pseudocopulation ?

A. Ammensalism

B. Commensalism

C. Proto-cooperation

D. Co-evolution

Answer: D

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77. Which of the following pair is a sedimentary type of biogeochemical cycle?

A. Phosphorus and nitrogen

B. Phosphorus and sulphur

C. Oxygen and nitrogen

D. Phosphorus and carbon dioxide

Answer: C

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78. The food chain in which microbes split energy rich compounds of the producer community is

A. Parasitic food chain.

B. detritus food chain

C. Predators food chain

D. Producer food chain

Answer: B

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79. Biodiversity of a geographical region represents

A. endangered species found in the region.

B. the diversity in the dominant species of the region.

C. genetic diversity in the dominant species of the region.

D. Species endemic to the region.

Answer: B

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80. Viable material of endangered species can be preserved by

A. gene bank .

B. gene library.

C. herbarium .

D. gene pool.

Answer: A

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81. Particulate matters in air can be removed most efficiently by the use of

A. catalytic converters in exhaust of automobiles.

B. Scrubbers

C. electrostatic precipitators.

D. Euro-III emission norms .

Answer: C

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82. The Ti plasmid, is often used for making transgenic plants. This plasmid is found in

A. Azotobacter.

B. Rhizobium.

C. Agrobacterium.

D. Yeast.

Answer: C

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83. The (a) provides the template, (b) brings amino acids and reads the genetic code , and (c) play structure and catalytic role during translation.

A. (a) DNA ,(b) tRNA ,(c) rRNA

B. (a) mRNA, (b) sRNA,(c) tRNA

C. (a) mRNA , (b) tRNA, (c) rRNA

D. (a) hnRNA, (b) tRNA, (c) mRNA

Answer: C

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84. Select the correct statement regarding okazaki fragments formed during DNA replication

A. They are the short DNA fragments on the lagging strand.

B. They are the short DNA fragments on the leading strand

C. They are the RNA primers required for initiation of DNA synthesis.

D. They are the fragments of DNA produced by Danes.

Answer: A

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85. In the Avery, MacLoed , and McCarthy experiment, which of the following enzymes did not affect the process of transformation ?

A. Protease

B. RNase

C. DNasa

D. Both (A) and (B)

Answer: D

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86. Mutation is the phenomenon which results in alteration of DNA sequences and consequently result in a change in the

A. genotype only.

B. Phenotype only .

C. Can be both genotype and phenotype.

D. Only characters.

Answer: C

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87. A couple having daughters only is expecting sixth progeny. The chance of the progeny being a son is

A. 0

B. $25\ \%$

C. $50\ \%$

D. $100\ \%$

Answer: C

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88. Which one of the following conditions correctly describes the sex determination mechanism ?

A. Homozygous sex chromosomes (ZZ) determine female sex in birds

B. XO type of sex chromosomes determine male sex in grasshopper.

C. XXY condition in humans as found in Turner's syndrome, determines female sex .

D. Homozygous sex chromosomes (XX) produce male in Drosophila.

Answer: B

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89. statement A – Typhoid Mary was a health worker.

Statement B – Haemophilus influenzae doesn't cause influenza.

A. Only Statement A is correct

B. Only Statement B is correct

C. Both statements A and B are correct .

D. Both statements A and B are incorrect

Answer: B

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90. Select the correct statement

A. Neural co - ordination is slow and long

B. Hypothalamus form the basal part of diencephalon.

C. GH is released by hypothalamus .

D. Pars distalis is the part of neuropophysis in pituitary gland.

Answer: B

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