BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 27

Biology

1. An example of a seed with endosperm and perisperm is

A. Coffee

B. Lily

C. Castor

D. Cotton

Answer: C

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2. Read the following three statements (A-C) and select the option which includes all the correct ones only:

i. During the primary growth of the plant, specific regions of the apical meristem produce dermal tissue, ground tissue and vascular tissue.

ii. In plants, growth is restricted to specialized regions of active cell division

iii. Secondary meristems are also known as cylindrical meristems.

A. Statement (i) and (ii)

B. Statement (ii) and (iii)

C. Statement (i), (ii) and (iii)

D. Statement (i) and (iii)

Answer: C

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3. Which of the following evolutionary stage of humans has a cranial capacity between 650-800cc?

A. Australopithecus

B. Homo habilis

C. Homo erectus

D. Homo sapiens

Answer: B

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4. Entamoeba histolytica infection occurs through:

A. Contaminated water and food

B. Sweat

C. Bird droppings

D. Mosquito bites

Answer: A

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5. DNA can be introduced into any cell by:

A. Injection

B. Being complexed with calcium salts

C. Being placed along with the cell into a gene gun

D. Gel electrophoresis

Answer: B

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6. Mast cells of connective tissue contain

A. Vasopressin and relaxin

B. Heparin and histamine

C. Heparin and calcitonin

D. Serotonin and melanin

Answer: B

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7. Who observed that the behaviour of chromosomes at meiosis can serve as the cellular basis of both segregation and independent assortment?

A. Sutton and Boveri

B. Bateson and Boveri

C. Sutton and Florey

D. Boveri and Morgan

Answer: A

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8. A small aquatic plant was put in each of the petri dishes X and Y containing different culture solutions. After six weeks, the plant in

dish X had the same number of leaves as earlier, and all leaves were small and yellowish. The plant in dish Y had more leaves of normal size and dark green colour. Which of the following set of elements would be missing in the culture of dish X ?

A. Magnesium, Phosphorus, Nitrogen

B. Potassium, Sulphur, Calcium

C. Iron, Manganese, Boron

D. Copper, Zinc, Chlorine

Answer: A

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9. Find the incorrect statement.

A. Gene therapy is a genetic engineering technique used to treat diseases at molecular level by replacing defective genes with normal genes

B. Calcitonin is a medically useful recombinant product in the treatment of infertility

C. Bt toxin is a biodegradable insecticide obtained from Bacillus thuringiensis

D. Trichoderma sp. is a biocontrol agent for fungal diseases of plants

Answer: B

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10. Which of the following types of RNA act as adapter molecule ?

A. All of these

B. rRNA

C. mRNA

D. tRNA

Answer: D

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11. In E. coli, an operator gene combines with

A. Inducer gene to switch on structural gene transcription

B. Represser protein to switch off structural gene transcription

C. Regulator gene to switch on structural gene transcription

D. Represser protein to switch on structural gene transcription

Answer: B

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12. Identify the correct sequence of organs/ regions in the organization of human ear as an auditory mechanoreceptor organ

A. Pinna - Cochlea - Tympanic membrane canal - Malleus - Stapes - Incus - Auditory nerve

B. Pinna - Auditory canal - Tympanic membrane - Malleus-Incus Stapes - Cochlea - Auditory nerve

C. Pinna - Malleus - Incus - stapes - Auditory canal - Tympanic membrane - Cochlea - Auditory nerve

D. Pinna - Tympanic membrane - Auditory canal - Cochlea - Malleus - Incus - Stapes - Auditory nerve

Answer: B

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13. Blood groups are identified by the presence of various surface glycoproteins that are referred to as antigens present on the surface of RBC. The cell organelle that would have involved in glycosylation of protein is

A. Ribosome

B. Peroxisome

C. Golgi bodies

D. Mitochondria

Answer: C

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14. Which one of the following hormones is not found in plants?

A. 2,4 -D

B. GA_2

C. Zeatin

D. IAA

Answer: A

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15. Besides Annelida and Arthropoda, true metamerism is found in

A. Ctenophora

B. Mollusca

C. Chordata

D. Porifera

Answer: C

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16. Cycas have two cotyledons but not included in angiosperms because of

A. Naked ovules

B. Seems like monocot

C. Circinate venation

D. Compound leaves

Answer: A

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17. Coronavirus is highly dangerous and life-threatening for elderly. This is due to a progressive decrease in secretion of

A. Adrenaline

B. Vasopressin

C. Thymosin

D. FSH

Answer: C

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18. CAD stands for

A. Carotid Arterial Dysfunction

B. Cerebral Artery Dysfunction

C. Coronary Artery Disease

D. Calcium Activated Disease

Answer: C

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19. The most important function of inflorescence is to help in

A. Forming large number of fruits

B. Attracting insects for cross-pollination

C. Dispersal of seeds

D. Release of pollen grains

Answer: B

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20. Which of the following have a highly convoluted surface to provide the additional space for more neurons?

A. Spinal cord

B. Corpus callosum

C. Cerebellum

D. Hypothalamus

Answer: C

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21. Which one of the following pairs is not correctly matched?

A. Streptococcus - Clot buster

B. Papaver - Tranquillizers

C. Trichoderma - Biocontrol agent

D. Rhizobium - Biofertilizer

Answer: B

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22. The harmful Ozone is present in

A. Troposphere

B. Stratosphere

C. Mesosphere

D. Thermosphere

Answer: A

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23. The "lock and key" model of enzyme action illustrates that a particular enzyme molecule

A. May be destroyed and resynthesised several times

B. Interacts with a specific type of substrate molecule

C. Reacts at identical rates under all conditions

D. Forms a permanent enzyme-substrate complex

Answer: B

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24. A mature sieve tube differs from vessel in

A. Lacking a functional nucleus

B. Absence of lignified walls

C. Being nearly dead

D. Lacking cytoplasm

Answer: B

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25. Statement-I: The mesophyll of Pinus shows no distinction as spongy mesophyll and palisade.

Statement-II: Parenchymatous cells are present in the mesophyll of Pinus.

A. Both statements are correct

B. Only statement II is correct

C. Only statement I is correct

D. Both statements are false

Answer: C

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26. Which of the following maintains continuity between the water and lipid phases inside and outside the cells?

A. Cell Wall

B. Lecithin

C. Cell vacuole

D. Cell membrane of woody plants

Answer: B

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27. Which of the following most appropriately describes haemophilia?

A. Recessive gene disorder

B. X - linked recessive gene disorder

C. Chromosomal disorder

D. Dominant gene disorder

Answer: B

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28. Which one of the following can help in the diagnosis of genetical basis of a disorder

A. ELISA

B. Blood

C. PCR

D. Nuclear magnetic resonance

Answer: C

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29. Which one of the following is a non-vascular embryophyte ?

A. Gymnospermae

B. Bryophyta

C. Pteridophyta

D. All the above

Answer: B

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30. A fungus contains cells with two nuclei from different genomes. The nuclei do not fuse but divide independently and

simultaneously as new cells are formed. It belongs to

A. Phycomycetes

B. Zygomycetes

C. Deuteromycetes

D. Basidiomycetes

Answer: D

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31. When huge amount of sewage is dumped into a river, its BOD will

A. Increase

B. Decrease

C. Sharply decrease

D. Remain unchanged

Answer: A

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32. A drupe develops in

A. Mangifera

B. Wheat plant

C. Pisum sativum

D. Tomato plant

Answer: A

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33. Select the correct statement from the ones given below with respect to dihybrid cross

A. Tightly linked genes on the same chromosome show higher recombinations.

B. Genes far apart on the same chromosome show very few recombinations.

C. Genes loosely linked on the same chromosome show similar recombination as the tightly linked ones.

D. Tightly linked genes on the same chromosome show very few recombinations.

Answer: D

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34. The translocation of organic solutes in sieve tube members is supported by

A. Root pressure and transpiration pull

B. P-proteins

C. Mass-flow involving a carrier and ATP

D. Cytoplasmic streaming

Answer: C

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35. Cartilages are made up of:

A. Calcium phosphate

B. Sodium chloride

C. Chondroitin sulphate

D. Chondroitin

Answer: C

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36. Herbarium is :–

A. A garden where medicinal plants are grown

B. A well-kept storehouse of live and growing herbaceous plants

C. A storehouse of dried and well-preserved plant specimens

D. chemical to kill plants

Answer: C

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37. Which of the following statements is incorrect about Leydig cells?

A. They are abundant in early foetal life.

B. They gradually diminish during childhood.

C. Their numbers increase at puberty.

D. They are absent in old age.

Answer: D

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38. Algal fungi are placed in

A. Ascomycetes

B. Basidiomycetes

C. Phycomycetes

D. Deuteromycetes

Answer: C

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39. Different types of assisted reproductive techniques are given below ?

(a) ZIFT (b) IUT

(c) ICSI (d) GIFT

(e) Al

Select the correct type of fertilisation in the above techniques :

A. In vitro $\rightarrow$ d, b, c , In vivo $\rightarrow$ a, e

B. In vitro $\rightarrow$ a, b, c, In vivo $\rightarrow$ d, e

C. In vitro $\rightarrow$ d, e, In vivo $\rightarrow$ a, b, c

D. In vitro $\rightarrow$ a, c, e, In vivo $\rightarrow$ b, d

Answer: B

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40. Carbon dioxide is transported from tissues to respiratory surface by only:

A. Plasma and erythrocytes

B. Plasma

C. Erythrocytes

D. Erythrocytes and leucocytes

Answer: A

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41. Which one of the following statements is incorrect?

A. The medullary zone of kidney is divided into a few conical masses called

medullary pyramids projecting into the calyces.

B. Inside the kidney, the cortical region extends in between the medullary pyramids as the renal pelvis, which forms the columns of Bertini.

C. Glomerulus along with Bowman's capsule is called the renal corpuscle.

D. Renal corpuscles, proximal convoluted tubule (PCT) and distal convoluted

tubule (DCT) of the nephron are situated in the cortical region of kidney.

Answer: B

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42. Intrinsic factor is essential for the absorption of vitamin:

A. B_{12}

B. B_2

C. B_3

D. B_7

Answer: A

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43. Choose the correct sequence of stages of growth curve for bacteria

A. Lag, log, stationary, decline phase

B. Lag, log, stationary phase

C. Stationary, lag, log, decline phase

D. Decline, lag, log phase

Answer: A

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44. Which of the following statements, support the view that elaborate sexual reproductive process appeared much later in the organic evolution ?

(i) Lower groups of organisms have simpler

body design.

(ii) Asexual reproduction is common in lower groups.

(iii) Asexual reproduction is common in higher groups of organisms.

(iv) The high incidence of sexual reproduction in angiosperms and vertebrates.

Choose the correct answer given below.

A. i, ii and iii

B. i, iv and iii

C. i, ii and iv

D. ii, iv and iii

Answer: C

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45. "Ontogeny recapitulated phylogen" is the brief definition of :

A. Darwinism

B. Mutation theory

C. Biogenetic law

D. Abiogenesis

Answer: C

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46. Before the five-kingdom system, organisms such as Chlamydomonas and Spirogyra were classified under:

A. Monera

B. Algae

C. Fungi

D. Plantae

Answer: B

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47. Respiration differs from combustion in which of the following ?

A. Energy is released in respiration

B. Substance is oxidised

C. Enzymes are involved

D. All the above

Answer: C

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48. The surgical removal or cutting and ligation of the ends of oviduct is known as :

A. Tubectomy

B. Oviductomy

C. Vasectomy

D. Ovarioctomy

Answer: A

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49. Match the following with the correct combination :

A. Hyaluronidase reaction	1. Acrosomal
B. Corpus luteum movements	2. Morphogenetic
C. Gastrulation	3. Progesterone
D. Capacitation	4. Mammary gland
E Colostrum activation	5. Sperm

A. A -5, B - 2, C -4, D - 1, E - 3

B. A- 3, B -2, C -5, D -4, E- 1

C. A - 1, B - 2, C - 3, D - 4, E - 5

D. A - 1, B - 3, C - 2, D - 5, E - 4

Answer: D

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50. In some angiosperms and gymnosperms, the multiple embryos are produced in the following way/ways?

A. By fertilization of synergids or antipodal cells by sperms

B. By cleavage of the single zygote

C. One or more cells of the nucellus or integument develops into embryo

D. All of these

Answer: D

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51. Photosynthesis in C_4 plants is relatively less limited by atmospheric CO_2 levels because

A. Effective pumping of CO_2 into bundle sheath cells

B. Rubisco in C_4 plants has higher affinity for CO_2

C. Four carbon acids are the primary initial CO_2 fixation products

D. The primary fixation of CO_2 is mediated via PEP carboxylase

Answer: D

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52. Which of the following alkaloids cause emphysema and high blood pressure?

A. Quinoline

B. Nicotine

C. Caffeine

D. None of these

Answer: B

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53. In Miller's experiment, He used a mixture of CH_4 , NH_3 , H_2 and water vapour in a closed flask to mimic early earth's conditions. What

was the temperature at which this flask was kept?

A. $800^\circ C$

B. $1200^\circ C$

C. $200^\circ C$

D. $400^\circ C$

Answer: A

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54. In cells actively participating in protein synthesis and secretion, which of the following organelles is frequently found ?

A. Golgi complex

B. Smooth endoplasmic reticulum

C. Rough endoplasmic reticulum

D. Mitochondria

Answer: C

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55. Which pair of the following belongs to basidiomycetes

A. Puffballs and Claviceps

B. Mucor and Ustilago

C. Trichoderma and mushrooms

D. Rust fungi and puffballs.

Answer: D

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56. EcoRI always cut DNA molecules at a particular point by recognizing a specific sequence between :

A. G and A

B. T and C

C. A and A

D. T and T

Answer: A

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57. Totipotent cell refers to

A. An undifferentiated cells capable of developing into complete embryo

B. An undifferentiated cell capable of developing into an organ

C. An undifferentiated cell capable of developing into a system or entire plant

D. Cells which lack the cell wall

Answer: A

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58. During sexual reproduction in angiosperm, the megaspore is produced by

A. Mitosis

B. Meiosis

C. Mitosis followed by meiosis

D. Meiosis followed by mitosis

Answer: B

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59. The given diagram represents which type of plant ?

(The red line indicates the critical period).

A. Long day plant

B. Short day plant

C. Day neutral plant

D. None of these

Answer: A

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60. Nostoc is known to perform

A. Only photosynthesis

B. Photosynthesis and nitrogen fixation simultaneously

C. Only nitrogen fixation

D. Either photosynthesis or nitrogen fixation at a time

Answer: B

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61. In birds, which muscle is well developed ?

A. Alary

B. Biceps

C. Gastroconemius

D. Pectoralis major

Answer: D

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62. The characteristic/s of a renewable exhaustible natural resource is

A. Renewable resources are living, able to reproduce or replace themselves and to get increased in number.

B. Can be recycled but should not be used beyond a limit.

C. Every resource is exhaustible, except solar power, wind power, tidal and wave power, and thermal power.

D. All of these

Answer: D

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63. Formation of corpus luteum is infulenced by

A. LH

B. FSH

C. Progesterone

D. PRL

Answer: A

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64. Development of the anther in angiosperms is

A. Leptosporangiate

B. Eusporangiate

C. Gradate

D. Simple

Answer: B

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65. cDNA probes are copied from the messenger RNA molecules with the help of

A. Reverse transcriptase

B. DNA polyermase

C. Restriction enzymes

D. Adenosine deaminase

Answer: A

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66. Ecological pyramids are of

I. three types (age pyramids, energy pyramids and biomass pyramids).

II. four types (age pyramids, energy pyramids, number pyramids and biomass pyramids).

III. five types ((age pyramids, energy pyramids, number pyramids, tropical pyramids and biomass pyramids).

Select the statements with the correct option.

A. I, Il and II

B. I and II

C. I only

D. None are correct

Answer: D

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67. Although much CO_2 is carried in blood, bloods does not become acidic because

A. It is absorbed by the leucocytes

B. Blood buffers play an important role in CO_2 transport.

C. It combines with water to from carbonic acid which is neutralized by $NaCO_3$

D. It is continuously diffused through tissues and is not allowed to accumulate

Answer: B

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68. Biofertilizers include

A. Rhizobium, Azotobacter, Azospirilium and blue green algae (BGA).

B. Glomus, Anabaena, Nostoc, Frankia.

C. Rhodospirullum, Rhodopseudomonas, Clostridium, Bacillus, Beijerinkia.

D. All of these

Answer: D

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69. If 50 glucose molecules combine to form 'A' polysaccharide. The general formula of 'A' polysaccharide will be

A. $C_{300}H_{600}O_{300}$

B. $C_{300}H_{500}O_{250}$

C. $C_{300}H_{502}O_{250}$

D. $C_{250}H_{500}O_{250}$

Answer: B

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70. "Endomitosis" refers to

A. Division of nucleus without chromosomal division

B. Division of chromosome without nuclear division

C. Division of cytoplasm

D. None of these

Answer: B

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71. 'Pathogens' are

I. Normally non-disease causing in nature.

II. Bacteria, viruses, fungi, protozoans, helminths are few examples of pathogens.

III. It causes harm to the host by living in (or on) them.

A. I and III

B. ll and III

C. I and II

D. All are correct

Answer: B

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72. Which of the following groups of plants are propagated through underground root

A. Bryophyllum and Kalanchoe

B. Ginger, potato, onion and zimikand

C. Pista, chrysanthemum and pineapple

D. Sweet potato, Asparagus, Tapioca and Dahlia

Answer: D

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73. The difference between the Red List and Red Data Book is

A. The Red Data Book contains three colored pages Red, pink and green and

The Red List has the animals typed with brown, blue and orange.

B. The Red List contains names of endangered species and Red Data Book contains information of endangered species.

C. Both (a) and (b).

D. None of the above.

Answer: B

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74. Pure line breed refers to

A. Heterozygosity only

B. Heterozygosity and linkage

C. Homozygosity only

D. Homozygosity and self-assortment.

Answer: C

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75. Whorled, simple leaves with reticulate venation are present in

A. Calotropis

B. Neem

C. China rose

D. Alstonia

Answer: D

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76. In mycorrhiza the fungal hyphae

A. Remain restricted to the root surface

B. Remain restricted up to the root cortex

C. Pass into the root interior

D. Enter the root apex and reach all parts

Answer: B

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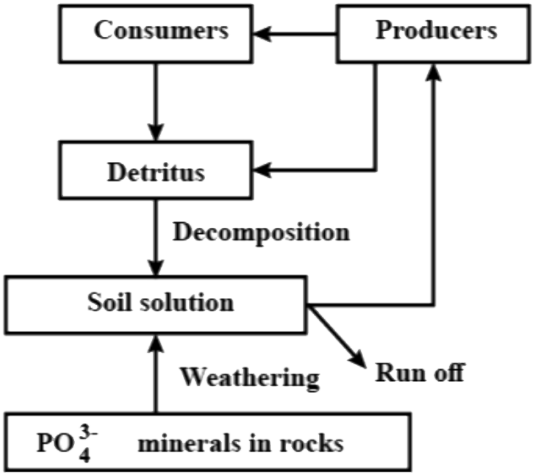
77. The diagram/flow chart represents which of the sedimentary biogeochemical cycle ?



A. Nitrogen cycle

B. Phosphorus cycle

C. Oxygen cycle

D. Sulphur cycle

Answer: B

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78. Niche overlap indicates

A. mutualism between two species

B. active cooperation between two species

C. two different parasite on the same host

D. sharing of one or more resources between the two species

Answer: D

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79. The pivotal and gliding joint is present between the

A.	Pivotal joint	Gliding joint
	Atlas and axis	Between the carpals
B.	Pivotal joint	Gliding joint
	Atlas and axis	Atlas and axis

C.

Pivotal joint	Gliding joint
Carpal and metacarpal	Atlas and axis

D.

Pivotal joint	Gliding joint
Trasal and metatarsals	Atlas and axis

Answer: A

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80. Body is segmented in

A. Arthropoda

B. Cnidaria

C. Annelida

D. Both (a) and (c)

Answer: D

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81. Select the correct set of animals of class-mammalia

A. Lion, hippopotamus, penguin, bat

B. Lion, bat, whale, ostrich

C. Hippopotamus, penguin, whale, kangaroo

D. Whale, bat, kangaroo, hippopotamus

Answer: D

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82. The points at which crossing over has taken place between homologous chromosomes are called

A. Protein axis

B. Synaptonemal complexes

C. Chiasmata

D. Centromeres

Answer: C

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83. Flagella of prokaryotic and eukaryotic cells differ in

A. Type of movement and placement in cell

B. Location in cell and mode of functioning

C. Micro-tubular organisation and type of movement

D. Micro-tubular organisation and function

Answer: C

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84. According to IUCN Red List, what is the status of Red Panda (Ailurus fulgens)

A. Critically endangered species

B. Vulnerable species

C. Extinct species

D. Endangered species

Answer: D

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85. A woman with 47 chromosomes due to three copies of chromosome 21 is characterized by

A. Super femaleness

B. Triploidy

C. Turner's syndrome

D. Down's syndrome

Answer: D

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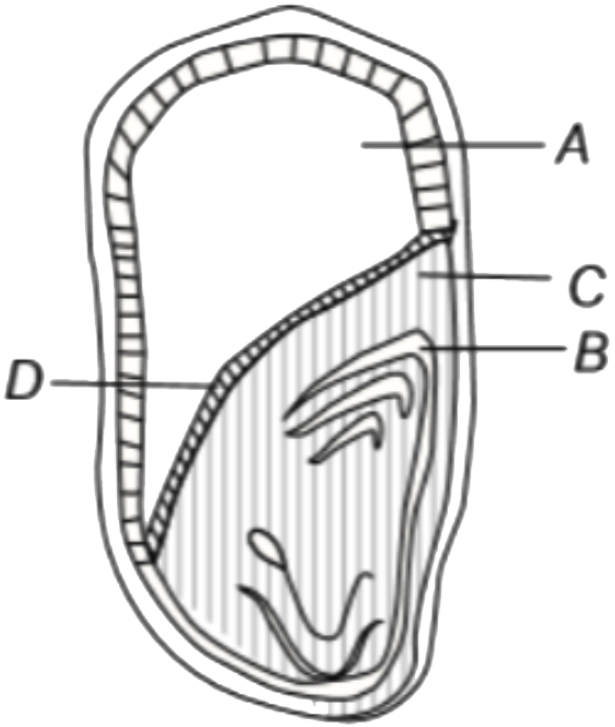
86. Given below is a diagram of maize grain. Label the missing parts with the correct options



A. A -Endosperm, B - Coleoptile, C - Scutellum , D - Aleurone layer

B. A - Cotyledon , B - Coleoptile, C - Scutellum , D - Epithelium

C. A - Endosperm, B - Coleorhiza, C - Scutellum , D - Epithelium

D. A - Endosperm, B - Coleoptile, C - Scutellum , D- Radicle

Answer: A

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87. In human female, the fertilized eggs gets implanted in uterus

A. After two months of fertilization

B. After one month of fertilization

C. After 3 weeks of fertilization

D. After about 7 days of fertilization

Answer: D

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88. The correct order of the macromolecules that gets digested in the body is

A. Carbohydrate-fat-protein

B. Carbohydrate-protein-fat

C. Fat-protein-carbohydrate

D. Fat-carbohydrate-protein

Answer: A

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89. CAM helps the plants in

A. Conserving water

B. Secondary growth

C. Disease resistance

D. Reproduction

Answer: A

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90. Which is a dominant character of a pod of a pea?

A. Constricted shape

B. Inflated shape

C. Conical shape

D. Fusiform shape

Answer: B

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