BIOLOGY

NTA MOCK TESTS ENGLISH

NTA NEET SET 30

Biology

1. The sweet patoto family is included in the order

A. Polymoniales

B. Sapindales

C. Poales

D. Asparagales

Answer: A

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2. The following are some statements about leucocytes. Which of these is incorrect?

I. The most abundant leucocyte is a

granulocyte, whereas the least abundant leucocyte is an agranulocyte.

II. The largent leucocyte is a granulocyte, whereas the smallest leucocyte is an agranulocyte.

III. Phagocytic leucocytes may be agranulocyte or granulocyte.

IV. Polymorphonuclear leucocytes are the largest granuocyte, whereas the largest agranulocyte has a kidney-shaped nucleus.

A. I, II and III

B. II and IV

C. III and IV

D. I and II

Answer: D

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3. A doctor has ordered a test for serum bilirubin. The patient goes to a pathologist who collects his blood. The pathologist should collect this blood in a test tube containing

A. Anti-coagulant sodium citrate

B. Anti-coagulant double oxalate

C. Anti - coagulant fluorides

D. No anti-coagulant

Answer: D

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4. The renin-angiotensin mechanism to increase blood pressure involves organs in the following order.

A. Kidney- Liver - Lungs - Adrenal gland - Kidney

B. Kidney- Lungs - Liver - Adrenal gland - Kidney

C. Kidney- Liver - Adrenal gland - Lungs - Kidney

D. Kidney- Lungs - Adrenal gland - Liver - Kidney

Answer: A

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5. internal fertilization is seen in

A. Algae

B. Amphibians

C. Fungi

D. Bony fishes

Answer: C

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6. What floral reward does Amorphophallus particularly provide to its pollinator?

A. Floral oils

B. Pollen grains

C. Nectar

D. Safe place to lay eggs

Answer: D

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7. My nucellar cells surrounding the embryo sac and develop into the embryos. Each of my ovule contains many embryos. Who am I?

A. Apple

B. Litchi

C. Lemon

D. Strawberry

Answer: C

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8. Which lupine was excavated from the tundra that germinated and flowered after a record 10,000 years?

A. Lupinus polyphyllus

B. Lupinus Lepidus

C. Lupinus littoralis

D. Lupinus arcticus

Answer: D

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9. Choose the correct group of plants that use entomophily as their preferred method of pollination

A. Zostera, Vallisneria

B. Zea mays, Sorghum vulgare

C. Bougainvillea, Salvia

D. Butea, Bauhinia

Answer: C

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10. In the development of Angiosperms, generally

A. The development of endosperm starts before the development of embryo.

B. The development of endosperm starts after the development of an embryo

C. The development of endosperm starts along with the development of embryo

D. The endosperm disappears before the development of embryo starts.

Answer: A

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11. 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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12. Progeny with blood group 'O' can not be obtained cross

A. A

B. B

C. AB

D. O

Answer: C

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13. A homozygous pea plant with round seed coat and yellow cotyledons is crossed with another homozygous pea plant having wrinkled seed coat and green cotyledons.

Give the dihybrid phenotypic ratio with the corresponding phenotypes.

A. ggrr

B. Yyrr

C. yyrr

D. GGrr

Answer: A

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14. which of the following example of intragenic inheritance was not discovered by Mendel?

A. Co-dominance

B. Incomplete dominance

C. complete dominance

D. None

Answer: D

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15. Which of the folloiwng statement/s about test cross is/are correct?

I. Every test cross is a back cross, but not every back cross is a test cross.

II. Every back cross is a test cross but not every test cross is a back cross.

III. The ratio of a test cross is always 1:1.

IV. A test cross can be considered as a type of reciprocal cross.

A. I and III

B. I, III and IV

C. II and IV

D. I

Answer: D

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16. In Andalusian fowls, the mating of black and white fowls will produce

A. Black fowls

B. White fowls

C. Blue fowls

D. Grey fowls

Answer: C

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17. Which of the following does not belong to the Palaeozoic era?

A. Silurian

B. Cretaceous

C. Devonian

D. Carboniferous

Answer: B

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18. Choose the pairs of organs that are a result of convergent evolution

i. Wings of butterflies and wings of birds.

ii. Flippers of penguins and flippers of dolphins

iii. Eyes of octopus and eyes of mammals.

iv. Thorns of Bougainvillea and tendrils of Cucurbita.

v. Sweet potato and potato.

vi. Vertebrate hearts and vertebrate brains

A. i, ii,v and vi

B. i, ii, iii and iv

C. i, ii and vi

D. i,ii,iii and v

Answer: D

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19. The first cellular forms of life appeared on earth about

A. 500 mya

B. 2000 mya

C. 2500 mya

D. 350 mya

Answer: B

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20. Test cross involves

A. From different breeds

B. From same breeds but with common ancestors only from one side

C. From same breed but with common ancestors from both sides

D. From same breed but with no common ancestors

Answer: D

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21. Competitive release' refers to

A. Inablity of two species to co-exist indefinitely and eventual elimation of the competitively inferior species

B. Avoidance of competition between species cometing for same resource by figuring a compromise

C. Expansion of distribution of a species restriced to a small area due to a

comptitively superior species being experimental eliminated

D. Evolutionary success in devising a mechanism to counter and neutralize competion

Answer: C

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22. The intrinsic rate of natural increase for Indian human population according to the 2011 census was

A. 0.0205

B. 0.0147

C. 0.0652

D. 0.0351

Answer: B

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23. The major portion of the dry weight of plants comprised of

A. Water

B. Carbon

C. Hydrogen

D. Nitrogen

Answer: B

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24. Arrange the following is descending order of their percentage of the toal cost of various ecosystem services

A. Soil formation , nutrient cycling , climate regulation

B. Soil formation , climate regulation , nutrient cycling

C. climate regulation , nutrient cycling , Soil formation

D. climate regulation , Soil formation , nutrient cycling

Answer: A

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25. Choose the incorrect statement from the following

A. Sun is the only source of energy for every single ecosystem on earth

B. Plants capture 2 - 10% of PAR

C. Ecosystems follow the 2nd law of thermodynamics

D. In a terrestrial ecosystem major producers are herbaceous and woody plants

Answer: A

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26. Which of the following comparisons is correct?

A. Number of recorded animals is equal to number of recorded plants

B. Number of national parks in India is less than Number of biodiversity hotspots in the world

C. Number of varieties of mango in India is less than number of varieties of rice in

India

D. The percentage of mammals facing the threat of extinction is more than the percentage of amphibians facing the threat of extinction

Answer: D

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27. Bali, Javan Caspian are

(a) species of tiger

(b) species of Cheetah

(c) subspecies of cheetah

(d) subspecies of tiger

A. Lion

B. Tiger

C. Panther

D. Cheetah

Answer: B

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28. Which part of the biosphere reserve is an area of active cooperation between reserve management and the local people, wherein activities like settlements, cropping, forestry and recreation and other economic uses continue in harmony with conservation goals ?

A. Core area

B. Buffer area

C. Transition area

D. Any where in the biosphere reserve

Answer: C

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29. Arrange the following efforts to control pollution in chronological order.

A. In India, the air (Prevention and control of Pollution) Act was amended to include noise as an air pollutant.

B. The government of India passed the water

(Prevention and Control of Pollution)Act to safeguard our water resources.

C. Recognizing the deleterious effects of ozone depletion, the Montreal Protocol became effective.

D. The National Forest Policy of India recommended 33% forest cover for the plains and 67 % for this hills.

A. A - B - D - C

B. B - A - D- C

C. B - A - C - D

D. A - B - C - D

Answer: B

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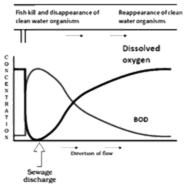
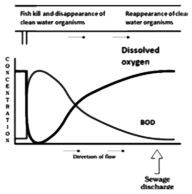
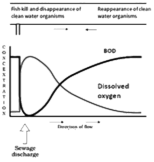
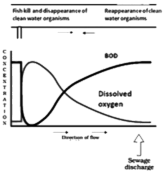
30. Choose the correct representation of effect of sewage discharge on important characteristics of a river.

A. 

B. 

C. 

D. 

Answer: A

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31. Identify the tissue which has been incorrectly matched with its function.

A. Columnar Epithelium - Secretion

B. Columnar Epithelium - Absorption

C. Squamous Epithelium - Both secretion and absorption

D. Ciliated Epithelium - Move particles or mucous in a certain direction

Answer: C

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32. Select the correct statement from the following .

I. Bones support and protect softer tissue and organs

II. Blood is a fluid connective tissue.

III. Cartilage is a type of specialised muscle tissue.

IV. The bone marrow found in some bones is the site of production of leucocytes.

A. I and II

B. I, II, III

C. I, II, III and IV

D. I, II and IV

Answer: D

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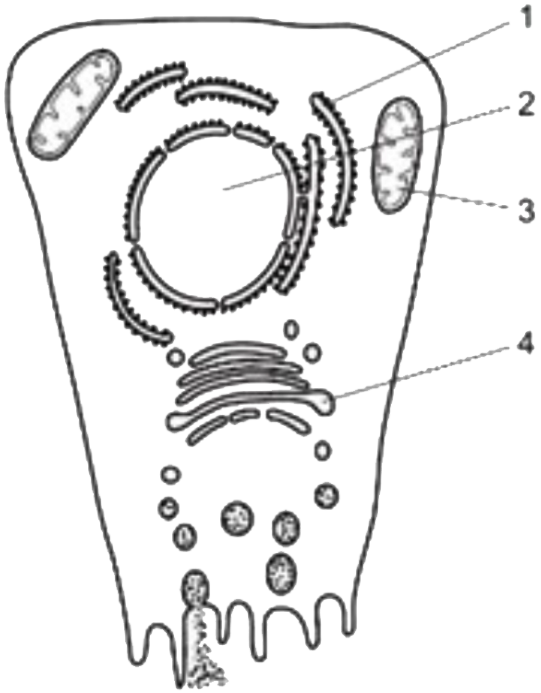
33. Radioactively - labelled d- nucleotides are introduced into a cell.



In which cell structures will the radioactively first become concentrated ?

A. 1 and 2

B. 1 and 4

C. 2 and 3

D. 3 and 4

Answer: C

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34. Which type of cell contais the highest proportion of cell structures bound by a single membrane?

A. Ciliated epithelial cell

B. Red blood cell

C. Smooth muscle cell

D. Goblet cell

Answer: D

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35. Some features of cells are listed. Which features can be found both in plant cells and prokaryotic cells?

I. Cell wall

II. Cell surface membrane

III. Ribosome

A. I and III only

B. II and III only

C. I and III only

D. I, II and III

Answer: D

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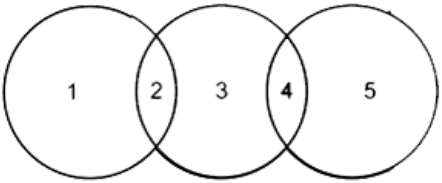
36. The diagram shows the relationship between some biological molecules.

Which row is correct for this relationship?



	1	2	3	4	5
A	Glucose	Carbohydrate	Sucrose	Monomer	Fructose
B	Cellulose	Polymer	Starch	Carbohydrate	Amylase
C	Fructose	Reducing sugar	Glucose	Monomer	Amino acid
D	Haemoglobin	Protein	Amylose	Polymer	Cellulose

A. A

B. B

C. C

D. D

Answer: C

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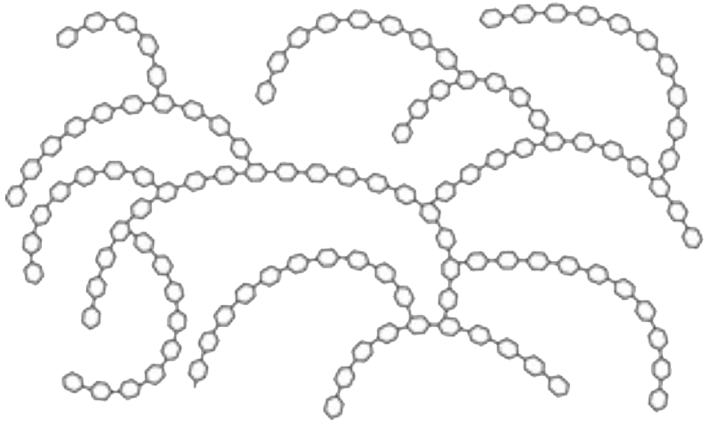
37. The diagram shows part of a carbohydrate molecule formed by glucose monomer. What is

the name of the molecule?



A. Amylose

B. Cellulose

C. Starch

D. Glycogen

Answer: D

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38. What is the effect of an enzyme in an enzyme-catalysed reaction?

A. Decrease the activation energy and decreases the energy yield

B. decrease the activation energy and has no effect on the energy yield

C. increase the activation energy and increases the energy yield

D. increases the energy yield and decreases the activation energy

Answer: B

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39. How many copies of each different DNA molecule will be found in a cell at the beginning of each of these stages of the

mitotic cell cycle ?

	G 2 of Interphase	Prophase	Cytokinesis
A	1	1	2
B	1	2	1
C	2	1	2
D	2	2	2

A. A

B. B

C. C

D. D

Answer: D

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40. For successful cell replacement during tissue repair, the chromosome content of each daughter cell must be identical to that of the mother cell. Which stages of mitosis make sure that each daughter cell receives one chromatid from each chromatid pair?

A. Prophase and metaphase

B. Metaphase and anaphase

C. Anaphase and telophase

D. Telophase and interphase

Answer: B

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41. The process of exchange of .....A.....from the atmosphere with CO_2 produced by the cells is called .....B....., commonly known as .....C..... . Choose the alternative that will correctly replace A, B and C in the above statement and make it meaningful.

A. $A - N_2, B$ - ventilation, C - respiration

B. $A - NO_2, B$ - breathing , C - combusion

C. $A - O_2, B$ - breathing , C- respiration

D. A- water vapour , B - ventilation, C - combustion

Answer: C

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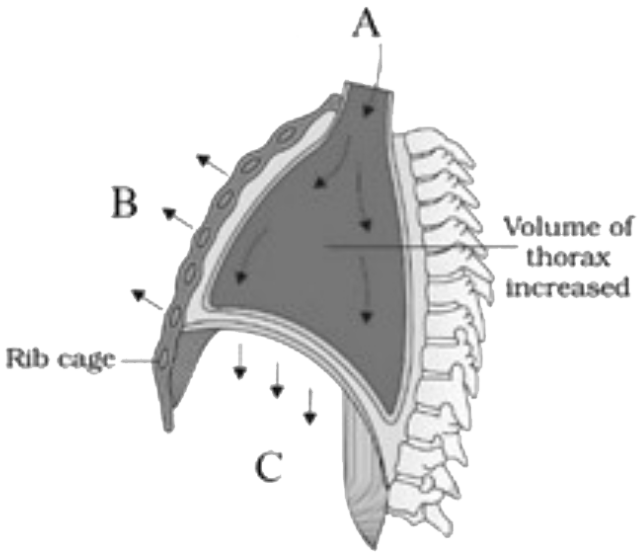
42. Observe the given diagram . Identify the label A, B and C.



A. A - Air goes inside to lungs, B - Ribs and sternum returned to original position, C- Diaphragm relaxed are arched upward

B. A - Air goes inside to lungs, B - Ribs and sternum raised, C- Diaphragm contracted

C. A - Air expelled from lungs, B - Ribs and sternum returned to original position, C- Diaphragm contracted

D. A - Air expelled from lungs, B - Ribs and sternum raised, C- Diaphragm relaxed are arched upward

Answer: B

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43. Identify the correct DNA triplet on the original DNA template that will code for the amino acid histidine based on the following table.

Amino acid	Anti-codon
Ala	CGU
His	GUA
Ser	UCA

A. CAU

B. CGT

C. GTA

D. GUA

Answer: C

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44. From the following, Identify the statements that are correct regarding tRNA.

I. Hydrogen bonds between bases temporarily hold tRNA against mRNA.

II. The base sequences in the tRNA molecules are the same as the base sequences in the mRNA that is being translated.

III. The specificity of the tRNA moleucle for glycine and the specificity of the enzyme that loads glycine are both necessary for correct loading.

A. I, II and III

B. I and II only

C. I and III only

D. II and III only

Answer: C

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45. DNA polymerase catalyses condensation reactions between molecules during semi-conservative replication of DNA. Which two molecules are joined by DNA polymerase?

A. Base and base

B. Base and nucleotide

C. Nucleotide and nucleotide

D. Phosphate and deoxyribose

Answer: C

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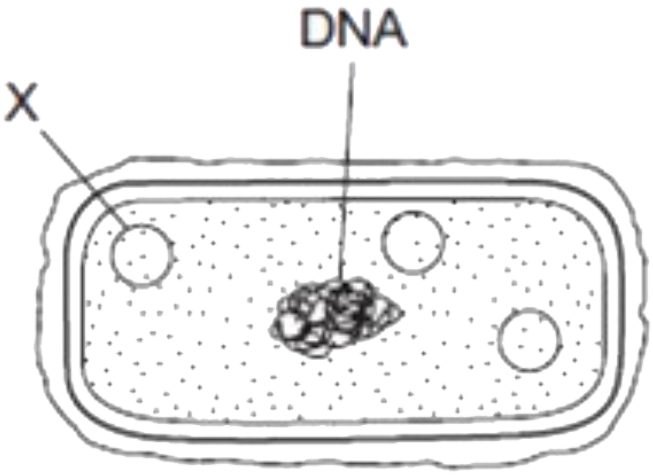
46. The diagram shows the structure of a bacterial cell.



The presence of structure C in the bacterial cell is one reason why bacteria are used in genetic engineering . In the cloning vector pBR322, which gene is responsible for the replication of structure X ?

A. Cla I

B. BamH I

C. ori

D. rop

Answer: D

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47. Which of the following statement/s is/are and example of genetic engineering?

I. Inserting a gene for human insulin production into bacteria.

II. Selective breeding to produce cattle with

high milk yields.

III. Using methods like crop rotation with leguminous plants to increase the fertility of the soil.

IV. Vegetative propagation and grafting are practised to ensure higher yield.

A. I, II and IV

B. II and III

C. I and III

D. Only I

Answer: D

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48. Ligase enzymes are used in gentic engineering to :

A. Cut open plasmid DNA

B. Insert plasmids into bacteria

C. Isolate the DNA making up a human gene

D. Join human DNA to plasmid DNA

Answer: D

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49. To produce insulin via a non-human cell, which of the following would be required to be inserted in the vector's plasmid?

A. a segment of DNA from a human

B. a segment of DNA from another becterium

C. a molecule of insulin

D. an enzyme

Answer: A

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50. For a concave mirror, if real image is formed the graph between $\frac{1}{u}$ and $\frac{1}{v}$ is of the form

A. so they can get large machinery into the field

B. to prevent cross-pollination between GM and non-GM crops

C. to prevent diseases spreading between crops

D. to prevent pests attacking crops

Answer: B

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51. Which of the following organisms is an odd one out with respect to mode of nutrition?

A. Gonyaulax

B. Chlamydomonas

C. Trypanosmona

D. Nostoc

Answer: C

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52. Dikaryophase is commonly seen in members of:

A. Ascomycetes and Phycomycetes.

B. Ascomycetes and Basidiomycetes.

C. Phycomycetes and Basidiomycetes

D. Basidiomycetes and Deuteromycetes.

Answer: B

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53. Which of these statement/s about lichens is/are ture?

I. Lichens are mutually beneficial symbotic associations.

II. They grow extensively in area with high pollution, hence called as pollution indicators.

III. The phycobiont member, algae, is an autotroph and the mycobiont member, fungi, is a heterotroph.

IV. Fungi help the algae harvest sunlight for photosynthesis.

A. II and III

B. I and III

C. I, II and III

D. III and IV

Answer: B

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54. Fill in the blanks A, B, C and D with the correct choice of words.

Viruses are (A), protected by a protein coat

called (B). The protein coat is made up of the assembly of small units called the (C). It protects the internal (D)of the viruses.

A. A-glycolipids, B - capsule, C- chains, D - sugars

B. A- lipoproteins, B- covers, C- helices, D- genetic material

C. A-glycoproteins, B - cell wall, C - fatty acids, D - cytoplasm

D. A- nucleoproteins, B - capsid, C- capsomeres, D- genetic material.

Answer: D

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55. Observe the below diagram. Identify the option suggesting the correct function of A, B

and C.

A. A - Helps in attachment to the substratum, B- Stalk for supporting the body of brown algae, C - Leaf-like Photosynthetic organ for producing food

B. A - Stalk for supporting the body of brown algae, B- Leaf-like Photosynthetic organ for producing food, C - Helps in attachment to the substratum

C. A - Leaf-like Photosynthetic organ for producing food, B- Stalk for supporting the body of brown algae, C - Helps in attachment to the substratum

D. A - Leaf-like Photosynthetic organ for producing food, B - Helps in attachment to the substratum , C - Stalk for supporting the body of brown algae

Answer: C

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56. Roots of which of the following plants are involved in nitrogen fixation?

A. Cycas

B. Pinus

C. Banyan

D. Peepal

Answer: A

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57. Identify the correct match between the types of aestivation and their examples.

Types of Aestivation	Examples
i. Valvate	a. Cotton
ii. Twisted	b. Bean
iii. Imbricate	c. *Calotropis*
iv. Vexillary	d. Gulmohar

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

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

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

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

Answer: D

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58. A plant with racemose inflorescene, zygomorphic flowers, five sepals and petals showing vexillary aestivation, monocarpellary and unilocular superior ovary, androecium consisting of ten stamens.

The above- listed conditions are characteristics of the which family of plants?

A. Solanaceae

B. Fabaceae

C. Lilaceae

D. Brassicaceae

Answer: B

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59. In some plants, the leaves are shortlived and small. The petioles of such plants expand and become green. One such plant is:

A. Cactus

B. Venus fly-trap

C. Australian acacia

D. Peas

Answer: C

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60. The edible part of coconut fruit is :

A. Perisperm

B. endosperm

C. endocarp

D. mesocrap

Answer: B

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61. Read the following statements about monocot root. Which amongest them are correct?

I. It shows a polyarch condition of xylem.

II. Central pith is less or absent.

III. The monocot root does not undergo secondary growth.

A. Only I

B. I, II and III

C. I and III

D. I and II

Answer: C

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62. Arrage the below four layers in proper order starting from the outermost to the innermost layer after secondary growth has already occurred in a dicot stem.

I. Phellem

II. Wood

III. Phelloderm

IV Vascular cambium

A. $I \rightarrow II \rightarrow III \rightarrow IV$

B. $I \rightarrow III \rightarrow II \rightarrow IV$

C. $IV \rightarrow III \rightarrow II \rightarrow I$

D. $III \rightarrow II \rightarrow I \rightarrow IV$

Answer: B

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63. Which of the following is correct with respect to uphill transport using channel pumps?

A. Lower concentration to higher concentration utilizing ATP

B. Higher concentration to lower concentration utilizing ATP

C. Higher concentration to lower concentration without utilizing ATP

D. Hypertonic solution to hypotonic solution

Answer: A

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64. The process of nitrogen cycling by microbes involves multiple steps of oxidation and simultaneous reduction. The following reaction occurring during one such step is brought about by which bacteria?

$$2NO_2^- + O_2 \rightarrow 2NO_3^-$$

A. Pseudomonas

B. Nitrosomonas

C. Nitrobacter

D. Thiobacillus

Answer: C

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65. According to Blackman's law of limiting factor, which of the following is the most important limting factor in the process of photosynthesis?

A. Water

B. CO_2

C. Light

D. temperature

Answer: B

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66. How many cycles of cyclic and non-cyclic photophosphorylation would be required in order to generate enough energy for the production of one glucose molecule?

A. 10 cyclic and 4 non-cyclic photophosphorylation

B. 6 cyclic and 6 non-cyclic photophosphorylation

C. 2 cyclic and 4 non-cyclic photophosphorylation

D. 8 cyclic and 1 non-cyclic photophosphorylation

Answer: B

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67. How many of the following are the substrates involved in the Kreb's cycle?

Citric acid, succinic acid, hydrochloric acid, a-ketoglutaric acid, fumaric acid, malic acid, pyruvic acid, phosphoglyceric acid, acetic acid

A. six

B. four

C. five

D. three

Answer: C

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68. In which of the following form, glycerol can enter the cell as a cellular substrate?

A. PGA

B. Pyruvate

C. PGAL

D. PEP

Answer: C

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69. Read the given statements about auxins and state whether they are true or false :

a. Auxin promotes apical dominance.

b. Auxins have a negative impact on cytokinin levels.

c. F.W went isolated auxins from the coleoptiles of the coleptiles of the oat plant.

d. Auxin promotes flowering in the pineapple plants.

A. a - false, b - false, c-true, d - false

B. a - true, b - false, c - true, d - true

C. a - true, b-false, c - true, d - false

D. a - false, b - true, c - true, d- true

Answer: B

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70. Growth of vascular cambium is an example of :

A. Senescence

B. Geometric growth

C. Arithmetic growth

D. Plasticity

Answer: C

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71. Which of the following statements is incorrect regarding organisms of phylum Chordata?

A. The organism are characterized by the presence of a notochord and a ventral hollow nerve cord

B. They are triploblastic and bilaterally symmetrical

C. They have a ventral heart

D. They are further divided into three subphyla.

Answer: A

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72. How many of the following organisms belong to the second-largest phylum?

Apple snail, Pearl oyster, Anopheles, Culex, Aedes, Starfish, Sea urchin, Cuttlefish, Sea cucumber, Squid, Devil fish

A. 9

B. 8

C. 10

D. 4

Answer: D

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73. A 2 year old child shows stunted growth and slow brain development. He has thin limbs and also shows wasting of muscles. There is

great oedema and swelling present over his body parts. He has very less amount of fat present beneath his skin. Which of the following could be a reason for the development of this condition in him?

A. Replacement of mother's milk by foods less in total proteins as well as calories at an early age

B. Replacement of mother's milk by foods less in total proteins, but having high calories at an early age

C. Replacement of mother's milk by foods less in total fats, but having high calories at an early age

D. Replacment of mother's milk by foods less in vitamins and minerals, but having high calories at an early age

Answer: B

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74. Select the correct statements regarding the human skeletal from the statements given below:

I. There are a total of 12 ribs in the human skeletal system.

II. Each limb is made up of 30 bones.

III. The axia skeleton consists of 80 bones.

IV. The wrist bones are 8 in number

A. I and II

B. I and III

C. I, III and IV

D. II, III and IV

Answer: D

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75. Which of the following joint permits only limited movements ?

A. Joint present between flat skull bones

B. Joint present between adjacent vertebrae

C. Joint present between humerus and pectoral girdle

D. Knee joint

Answer: B

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76. Column I list the parts of the human brain and column II lists the functions. Match the two columns and identify the correct choice

from those given

Column I	Column II
A Cerebrum	p Controls the pituitary
B Cerebellum	q Controls vision and hearing
C Hypothalamus	r Controls the rate of heartbeat
D Midbrain	s Seat of intelligence
	t Maintains body posture

A. A - t, B = r, C = q, D = p

B. A = s, B = t, C = q, D = p

C. A = t, B = s , C = p , D = r

D. A = p , B = t, C = s, D = q

Answer: D

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77. Which of the following statement regarding forebrain in correct?

A. Forebrain consists of hypothalamus, thalamus and cerebellium

B. The layer of cells covering the cerebral hemispheres is referred to as white

matter.

C. The lobe involved in regulation of sexual behaviour and expression of emotional reaction is also a part of the forebrain.

D. Association areas of the forebrain are sensory in function

Answer: C

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78. Which of the following hormone helps in maintaining body temperature, metabolism, pigmentation, and defense capabilities?

A. Melatonin

B. Melanin

C. Thymosis

D. Calcitonin

Answer: A

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79. The hormones A and B secreted by Islet of Langerhans cause hyperglycemia and hypoglycemia, respectively

A. A : insulin, B : glucagon

B. A : somtatostain , B : insulin

C. A : glucogon, B : insulin

D. A : insulin B: somatostatin

Answer: C

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80. Read the following statements about the parathyroid gland and identify the true and false ones. Select the correct option after referring to the given table.

I. Human beings have a pair of parathyroid glands, situated in each lobe of the thyroid gland.

II. The secretion of PTH is regulated by the levels of circulating calcium ions.

III. PTH is a hypocalcemic hormone.

PTH plays a major role in maintaining calcium balance in the body along with TCT.

A. I - True, II - False, III - True, IV - False

B. I - True, II - True, III - False, IV - True

C. I - False, II - False, III - True, IV - False

D. I - False, II - True, III - False, IV -True

Answer: D

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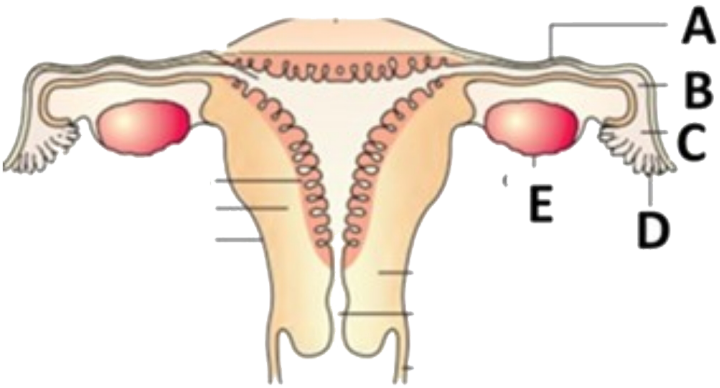
81. Identify the functions/characteristics of parts labelled as A, B, C, D and E in the given diagram. Select the correct option after

referring to the given table.



A. A : Part having a narrow lumen, B : Part where zygote formation occurs, C : Part closest to the ovary, D : Part resposible for transportation of ovum, E : Part responsible for production of ovum

B. A : Part having a narrow lumen, B : Part closest to the ovary, C : Part resposible for transportation of ovum, D : Part where zygote formation occures, E : Part responsible for production of ovum

C. A : Part responsible for production of ovum, B : Part resposible for transportation of ovum, C : Part where zygote formation occures, D : Part

closest to the ovary, E : Part having a narrow lumen

D. A : Part where zygote formation occurs, B : Part responsible for production of ovum, C : Part resposible for transportation of ovum, D : Part having a narrow lumen, E : Part closest to the ovary

Answer: A

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82. Which of the following cells are responsible for the secretion of the hormone that stimulates muscular growth, growth of facial and axillary hair, aggressiveness, low pitch of voice, etc.in males?

A. Cells which form the lining of seminiferous tubules

B. Cells which provide nutrition to the growing spermatozoa

C. cells situated in the interstitial space of testis

D. Germ cells

Answer: C

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83. Which of the following structures produces energy for the mobilityof mature sperm ?

A. The head

B. The neck

C. The tail

D. The middle piece

Answer: D

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84. Choose the right one among the statements given below.

A. IUDs are generally inserted by the user herself

B. IUDs increase phagocytosis reaction in the uterus

C. IUDs suppress gametogenesis

D. IUDs ones inserted need not be replaced

Answer: B

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85. which of the following processes is involved in the assisted reproductive technology known as 'GIFT'?

A. Transfer of zygote into the fallopian tube

B. Transfer of zygote into the uterus

C. Transfer of ovum collected from donor to the follopian tube

D. Transfer of ovum collected from donor to the uterus

Answer: C

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86. Identify the organism which causes dry, scaly lesions on the skin, nails and scalp of human is

A. A fungi belonging to genus Neurospora

B. A fungi belonging to genus Microsporum

C. A bacteria belonging to genus Streptococcus

D. A bacteria belonging to genus Mycobacterium

Answer: B

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87. Which of the following is an example of a disease caused by the attack of the body on its own cells?

A. Diabetes inscipidus

B. Malaria

C. Rheumatoid arthritis

D. Tuberculosis

Answer: C

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88. Which of the following drugs is capable of producing a state of euphoria or increased energy ?

A. Coke obtained from Erythroxylum coca

B. Heroin obtained from Cannabis sativa

C. Charas obtain from Claviceps purpurea

D. Morphine obtianed from Papaver somniferum

Answer: A

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89. Match the microbes given in column I with the major role played by them given in column II and select the correct option from the codes given below.

No.	Column I (Microbes)	No.	Column II (Functions)
I	*Propionibacterium sharmanii*	A	Produces an immunosuppressive agent
II	*Streptococcus*	B	Nitrogen fixation in soil
III	*Trichoderma polysporum*	C	Produce large holes in Swiss cheese
IV	*Rhizobium*	D	Produces enzyme used as clot-buster

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

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

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

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

Answer: B

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90. Given below are the steps involved in sewage treatment. Arrange them in proper sequence and select the correct option.

A. Passage of primary effluent into large

aeration tanks for mechanical agitation and pumping of air.

B. Passage of secondary effluent and formation of activated sludge.

C. Physical removal of particles through filtration and sedimentation

D. Release of effluent from the secondary treatment plant into natural water bodies.

E. Growth of useful aerobic microbes into flocs which significantly reduce the BOD.

A. A,C, B, E, D

B. A,B,C,D,E

C. C,A,E,B,D

D. C,E,A,B,D

Answer: C

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