

PAST QUESTIONS AND ANSWERS SAMPLE

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EBSU POST-UTME 2015/2016 BIOLOGY

- (16) The organelle involved in tissue respiration is the (A) Endoplasmic reticulum (B) Ribosome (C) Golgi body (D) Mitochondrion
- (17) A tissue can best be defined as
(A) An aggregate of similar cells
(B) An aggregate of cells performing similar function
(C) An aggregate of similar cells performing the same function
(D) A mixture of different cell types performing the same function
- (18) A major difference between platytherimnthes and coelenterates is that platytherimnthes
(A) Are multicellular
(B) Have developed mesoderm
(C) Reproduce sexually
(D) Reproduce a sexually,
- (19) The essential structural difference between Hydra and tapeworm is that while Hydra
(A) Has tentacles, tapeworm is parasitic. (B) Is diploblastic, tapeworm is triploblastic
(C) Has a mouth, tapeworm feeds by suckers
(D) Has mesoderm tapeworm has mesoglea
- (20) The flowering period of plants in a habitat is determined by the
(A) Duration of sunlight
(B) Intensity and duration of rainfall
(C) Relative humidity of the atmosphere (D) Temperature of the habitat.
- (21) An onion is a bulb because it
(A) Has a tuberous stem
(B) Has a reduced stem and thick fleshy leaves
(C) Has adventitious root
(D) Bears many buds at the nodes.
- (22) The flow of air and water in or out of the mesophyll is controlled by the
(A) Stomata
(B) Lenticels
(C) Air spaces
(D) Guard cells
- (23) Fungi are heterotypic because they
(A) Have no leaves
(B) Lack roots
(C) Are filamentous
(D) Lack chlorophyll.
- (24) The major site of photosynthesis in the leaf is the
(A) Palisade parenchyma
(B) Mesophyll parenchyma
(C) Upper epidermis
(D) Lower epidermis
- (25) 5cm³ dilute sodium hydroxide solution and 5cm³ one percent copper sulphate solutions are added to a solution of food specimen. The purple colour which is observed shows the presence of
(A) Glucose
(B) Starch
(C) Fat
(D) Protein
- (26) The blood vessel which carries blood from the alimentary canal to the liver is the
(A) Hepatic artery
(B) Hepatic vein

EBSU POST -UTME 2015 /2016 BIOLOGY ANSWERS

1. The organelle involved in tissue respiration is the mitochondrion popularly known as the power house of the cell. Glucose is oxidized in the mitochondrion to release energy for the cell metabolism:
$$C_6H_{12}O_6 + O_2 \rightarrow CO_2 + H_2O + \text{energy}$$

Answer D
2. A tissue can best be defined as an aggregate of cells performing a similar function. Examples: bones, muscles etc
Answer B
3. A major difference between platyherminthes and coelenterates is that platyherminthes have developed mesoderm.
Answer B
4. The essential structural difference between hydra and tapeworm is that while hydra is diploblastic, tapeworm is triploblastic.
Answer B
5. C
6. An onion is a bulb because it has a reduced stem and thick fleshy leaves.
Answer B
7. The flow of air in and out of the mesophyll is controlled by the guard cells.
Answer B
8. Fungi are heterotrophic because they lack chlorophyll.
Answer B
9. The major site of photosynthesis in the leaf is the mesophyll parenchyma.
Answer B
10. B - starch
11. The blood vessel which carries blood from the alimentary canal to the liver is the hepatic portal vein.
Answer C
12. C - ethanol
13. The excretory organ in insects is the malphigian tubule.
Answer B
14. Nitrogen -fixing micro-organisms in leguminous plants live symbiotically in the root nodules.
Answer A

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