

Exam Time : 01:00:00 Hrs

Total Marks : 50

10 x 1 = 10

- 1) The kidneys in human beings are a part of the system for
(a) Nutrition (b) Respiration (c) Excretion (d) Transportation
 - 2) The xylem in plants is responsible for
(a) Transport of water (b) Transport of food (c) Transport of amino acids
(d) Transport of oxygen
 - 3) The autotrophic mode of nutrition requires
(a) Carbon dioxide and water (b) Chlorophyll (c) Sunlight (d) All of the above
 - 4) The breakdown of pyruvate to give carbon dioxide, water and energy takes place in
(a) Cytoplasm (b) Mitochondria (c) Chloroplast (d) Nucleus
 - 5) Which of the following statements about the autotrophs is incorrect?
(a) They synthesise carbohydrates from carbon dioxide and water in the presence of sunlight and chlorophyll
(b) They store carbohydrates in the form of starch
(c) They convert carbon dioxide and water into carbohydrates in the absence of sunlight
(d) They constitute the first trophic level in food chains
 - 6) In which of the following groups of organisms, food material is broken down outside the body and absorbed?
(a) Mushroom, green plants, Amoeba (b) Yeast, mushroom, bread mould
(c) Paramecium, Amoeba, Cuscuta (d) Cuscuta, lice, tapeworm
 - 7) The inner lining of stomach is protected by one of the following from hydrochloric acid. Choose the correct one.
(a) Pepsin (b) Mucus (c) Salivary amylase (d) Oesophagus
 - 8) Which part of alimentary canal receives bile from the liver?
(a) Stomach (b) Small intestine (c) Large intestine (d) Oesophagus
 - 9) In which part of the alimentary canal food is finally digested?
(a) Stomach (b) Mouth cavity (c) Large intestine (d) Small intestine
 - 10) Choose the function of the pancreatic juice from the following
(a) trypsin digests proteins and lipase carbohydrates
(b) trypsin digests emulsified fats and lipase proteins
(c) trypsin and lipase digest food
(d) trypsin digests proteins and lipase emulsified fats
- 5 x 2 = 10
- 11) Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like humans?
 - 12) What processes would you consider essential for maintaining life?
 - 13) What is the function of digestive enzymes?

14) What are the different ways in which glucose is oxidized to provide energy in various organisms?

15) What are the necessary conditions for autotrophic nutrition and what are its byproducts?

5 x 3 = 15

16) What criteria do we use to decide whether something is alive?

17) What are outside raw materials used for by an organism?

18) How is the small intestine designed to absorb digested food?

19) How are fats digested in our bodies? Where does this process take place?

20) How is food transported in plants?

3 x 5 = 15

21) What are the differences between aerobic and anaerobic respiration? Name some organisms that use the anaerobic mode of respiration.

22) Describe double circulation in human beings. Why is it necessary?

23) What are the components of transport system in human beings? What are the functions of these components

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