

Life Processes - Class X - Paper Set 1

1. Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like humans?
 - a) Lack of surface area
 - b) Oxygen diffuses slowly
 - c) Small distance for diffusion
 - d) All of the above
2. Which process is essential for energy generation in living organisms?
 - a) Nutrition
 - b) Excretion
 - c) Photosynthesis
 - d) Respiration
3. Which type of nutrition involves organisms producing food from inorganic materials?
 - a) Heterotrophic
 - b) Autotrophic
 - c) Parasitic
 - d) Saprotrophic
4. What is the main site of carbohydrate digestion in the human body?
 - a) Stomach
 - b) Mouth
 - c) Small intestine
 - d) Large intestine
5. Which substance breaks down large fat molecules in the small intestine?
 - a) Bile salts
 - b) Saliva
 - c) Gastric juice
 - d) Amylase
6. The main function of alveoli in the lungs is:
 - a) Absorption of water
 - b) Gaseous exchange
 - c) Filtration of blood
 - d) Absorption of nutrients
7. Which structure in plants is primarily responsible for water transport?
 - a) Phloem
 - b) Xylem
 - c) Stomata
 - d) Cuticle

8. The removal of nitrogenous waste from the human body is called:
- a) Digestion
 - b) Excretion
 - c) Photosynthesis
 - d) Respiration
9. What is the role of hemoglobin in respiration?
- a) To transport carbon dioxide
 - b) To carry oxygen
 - c) To remove waste products
 - d) To absorb nutrients
10. Which structure in the nephron filters blood to form urine?
- a) Glomerulus
 - b) Alveolus
 - c) Phloem
 - d) Stomata

Answers:

- 1. d) All of the above
- 2. d) Respiration
- 3. b) Autotrophic
- 4. c) Small intestine
- 5. a) Bile salts
- 6. b) Gaseous exchange
- 7. b) Xylem
- 8. b) Excretion
- 9. b) To carry oxygen
- 10. a) Glomerulus