

Sample Paper – 2015
Class – X
Subject - Science

Time : 45 min

MM :

Set-01

(Life Processes)

1. Amoeba shows following kind of nutrition –

- a) autotrophic b) holozoic c) saprotrophic d) parasitic
[1]

2. The process by which blood is cleared of metabolic wastes in case of kidney failure is called –

- a) artificial kidney b) dialysis c) transplantation d) filtration
[1]

3. Woody plants carry gaseous exchange through

- a) root hair b) stem hair c) Lenticels d) epidermal cells.
[1]

4. Where does digestion of starch begin in human body?
[1]

5. Give one example each of saprophytic and parasitic nutrition.
[1]

6. What is common for cuscuta, ticks and leeches?
[2]

7. What advantage over an aquatic organism does a terrestrial organism have with regard to obtaining oxygen for respiration?
[2]

8. Differentiate between single and double circulation found in vertebrates.
[2]

9. Name the substrates for the following enzymes

- a) trypsin b) amylase c) pepsin d) lipase
[2]

10. What are the functions of lymph in our body?
[3]

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11. How is haemoglobin associated with respiration explained?
[3]
 12. What are the modes of excretion in plants?
[3]
 13. Give an experiment to prove the essentiality of light for photosynthesis
[3]
 14. What is 'clotting of blood'? Write a flow chart showing major events taking place in clotting of blood?
[5]
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Set-02

1. Which of the following statements about the autotrophs is incorrect?
[1]
 - a) They store carbohydrates in the form of starch.
 - b) They constitute the first trophic level in food chains.
 - c) They convert CO₂ and water into carbohydrates in the absence of sunlight
 - d) They synthesize carbohydrates from CO₂ and water in the presence of sunlight & chlorophyll.
2. Which of these is not a part of the small intestine?
a) Duodenum b) Jejunum c) Ileum d) Rectum
[1]
3. During contraction of heart, what prevents backflow of blood?
a) Thin walls of atria b) Thick muscular walls of ventricles c) Valves in heart d) All of the above
[1]
4. Name excretory organ in amoeba and earthworm
[1]
5. Name the plant tissue through which water and minerals are transported in plants
[1]
6. What are the two stages in photosynthesis?
[2]

7. What is the difference between arteries & veins?
[2]
8. What is villi? What are its functions?
[2]
9. What type of respiration takes place in human muscles during vigorous exercise and why?
[2]
10. What is “translocation”? Why it is essential for plants.
[3]
11. How respiration does takes place in plants?
[3]
12. How is transpiration pull responsible for upward movement of water?
[3]
13. Discuss the major steps involved in process of nutrition in human beings.
[3]
14. With the help of a labelled diagram of human excretory system, Mention its important part and explain them.
[5]

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