Class 10 Science · Chapter 5: Life Processes

Worksheet · 20 marks · about 40 minutes · based on NCERT

Name _____ Class and section _____ Date _____

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1. Carbohydrate that a green plant does not use at once is stored as its internal energy reserve in the form of [1]

(a) glucose
(b) glycogen
(c) starch
(d) cellulose

2. Salivary amylase in the mouth converts [1]

(a) proteins into amino acids
(b) starch into simple sugar
(c) fats into fatty acids
(d) emulsified fats into glycerol

3. In a person whose bile duct is blocked, the digestion of which food is affected most? [1]

(a) Starch
(b) Proteins
(c) Fats
(d) Simple sugars

4. The villi on the inner lining of the small intestine mainly [1]

(a) churn the food with acid
(b) secrete bile juice
(c) produce pepsin
(d) increase the surface area for absorption

5. In the first step of respiration, glucose is broken down in the cytoplasm into pyruvate. How many carbon atoms does one pyruvate molecule have? [1]

(a) Six
(b) Three
(c) Two
(d) One

6. Distinguish between saprophytic and parasitic nutrition, giving one example of each. [2]

7. How do the guard cells open a stomatal pore? Why does a plant close its stomata when it does not need carbon dioxide? [2]

8. How does Amoeba take in a food particle, and what happens to the material it cannot digest? [2]

9. Explain (a) why plants can manage with relatively slow transport systems, (b) why root pressure alone cannot raise water to the top of a tall tree, and (c) what provides the main upward force during the day. [3]

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10. Give the reason for each of the following: (a) food is crushed by the teeth and wetted by saliva; (b) the muscles of the food-pipe contract rhythmically; (c) a sphincter muscle guards the exit of the stomach. [3]

11. Trace the path of de-oxygenated blood from the vena cavae until it leaves the heart for the lungs, naming the chambers and the vessel. What do the heart valves do along this path? [3]