



BIOLOGY CH.6 LIFE PROCESSES

Name: _____

Date: _____

Class: X Sec: ____

Answer the following questions:

1. Define the following :i) photolysis of water , ii) light reaction , iii) photosynthesis
2. Where are photosynthetic pigments located in the chloroplast?
3. What is the specific function of light in photosynthesis?
4. What is the source of O_2 in photosynthesis?
5. What are the functions of stomata?
6. What do you understand by parasitic nutrition?
7. What is the role of water in photosynthesis?
8. Explain the process of nutrition in amoeba
9. Explain the mechanism of closing and opening of stomata
10. What is saprophytic mode of nutrition?
11. (a) Explain with the help of diagram, how amoeba takes its nutrition.
(b) Assume that you are a veterinary surgeon and you had removed a good length of the small intestine of a bear that was suffering from an intestinal tumour. Now, would you suggest a plant based or a meat based diet for the bear after its recovery? Give reason for your answer.
12. In human alimentary canal name the site of complete digestion of various components of food. Explain the process of digestion.
13. (a) Draw the human respiratory system and label the following – lung, bronchi, alveoli.
(b) During breathing cycle what is the advantage of residual volume of air in lungs? Explain.
14. (a) Draw a diagram of human respiratory system and label the following :
(i) part where air is filtered by fine hair and mucus
(ii) part which terminates in balloon – like structures
(iii) balloon – like structures where exchange of gases takes place.
(iv) part which separates chest cavity from abdominal cavity.
(b) Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?
15. List the three kinds of blood vessels of human circulatory system and write their functions in tabular form.
16. (a) Define excretion. Name any two substances that are selectively reabsorbed.
(b) Draw and label the following parts in the human excretory system. (i) Right Kidney (ii) Urinary Bladder (iii) Right renal artery.
17. Draw the diagram of sectional view of human heart and on it name and label the following parts :
(a) The chamber of the heart that pumps out de-oxygenated blood.
(b) The blood vessel that carries away oxygenated blood from the heart.
(c) The blood vessel that receives de-oxygenated blood from the lower part of our body.



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18. (a) Draw a diagram to show open stomatal pore and label on it : (i) guard cells (ii) chloroplast
(b) State two functions of stomata.
(c) How do guard cells regulate the opening and closing of stomatal pore?
19. “All plants give out oxygen during day and carbon dioxide during night”. Do you agree with this statement? Give reason.
20. Leaves of a healthy potted plant were coated with vaseline. Will this plant remain healthy for long? Give reasons for your answer.
21. Name the energy currency in the living organisms. When and where is it produced?
22. Two green plants are kept separately in oxygen free containers, one in the dark and the other in continuous light. Which one will live longer? Give reasons.