

Dr. M.K.K. ARYA MODEL SCHOOL
MODEL TOWN, PANIPAT
HOLIDAYS HOMEWORK ASSIGNMENT
SUBJECT : BIOLOGY
CHAPTER : 6 (LIFE PROCESSES)

CLASS : X

1. Explain the types of heterotrophic nutrition on the basis of food habit.
2. What is the role of iodine solution in activity 6.1?
3. What is the role of KOH in activity 6.2?
4. What is the function of pancreas in human digestive system?
5. How do guard cells regulate the opening and closing of stomatal pore. Explain with diagram.
6. Explain the role of bile juice in digestion of food.
7. What are villi? Mention their function.
8. What are peristaltic movements?
9. Why is small intestine in herbivores longer than in carnivores?
10. What happens when mucus is not secreted by gastric glands?
11. Why rate of breathing in aquatic organisms much faster than that in terrestrial organisms?
12. Why do walls of trachea not collapse when there is less air in it?
13. When a sportsman runs, he gets muscle cramps. Why?
14. Which is the universal source of energy in all cells?
15. Why desert plants take CO₂ at night time?
16. Explain the mechanism of exchange of gases.
17. Draw the flowchart of various pathways of glucose breakdown.
18. Why carbon dioxide is transported in dissolved form in our blood as compared to oxygen?
19. Explain the mechanism of breathing in detail.
20. What is the function of valves present in arteries and veins?
21. Explain the working of heart with diagram.
22. What is meant by double circulation? What is its significance?
23. What is the function of platelets in our blood?
24. Why do veins have thin walls as compared to arteries?
25. Why are white blood cells called soldiers of the body?
26. Why is it necessary to separate oxygenated and deoxygenated blood in mammals?
27. What is blood pressure? Which instrument is used to measure it?
28. What is lymph? State the functions of lymph.
29. What is meant by systolic and diastolic pressure? What are their normal values?
30. What is transpiration? State its two functions.
31. Explain the processes that help in transport of water and minerals in plants.
32. What is translocation? Why it is essential for plants?
33. Explain the human excretory system with diagram.
34. How is urine produced?
35. Mention the purpose of making urine?

36. What is the main toxic waste kidney filters from blood?
37. Explain the structure and functioning of nephron with diagram.
38. What are the methods used by plants to get rid of their waste products?
39. Name the factors on which amount of urine produced regulated.
40. Why do some people need to use a dialysis machine? What does the machine do?

DIAGRAMS :

- a) Cross – section of leaf
- b) Nutrition in amoeba
- c) Human digestive system
- d) Human respiratory system

PRACTICALS:

1. To prepare a temporary mount of a leaf peel to show stomata.
2. To show experimentally that light is necessary for photosynthesis.
3. To show experimentally that carbon dioxide is given out during respiration.