

**Assignment 5****Class X****Biology****Teacher: Mrs Sandhya Sood****Chapter 6: Life Processes**

- Q1. What will happen to a plant if its xylem is removed?
- Q2. Why do aquatic animals breathe faster than the terrestrial animals?
- Q3. Name the intermediate and the end product of glucose breakdown in aerobic respiration.
- Q4. How would it affect the digestion of proteins and carbohydrates in the duodenum of man if there is a blockage in the pancreatic duct? Explain.
- Q5. Why there is no mixing of oxygenated and deoxygenated blood in the human heart normally?
- Q6. Why are the walls of ventricles thicker than the auricles?
- Q7. Write one feature which is common to each of the following pairs of terms/organs.
- Glycogen and starch
  - Chlorophyll and hemoglobin
  - Gills and lungs
  - Arteries and veins
- Q8. What are the methods used by plants to get rid of excretory waste?
- Q9. a) Draw a diagram of human respiratory system and label on it:  
(i) Larynx (ii) trachea (iii) lungs (iv) bronchi  
b) Why do the walls of trachea not collapse when there is less air in it?
- Q10. What will happen if platelets were absent in the blood?
- Q11. What is the significance of emulsification of fats?
- Q12. Why is small intestine in herbivores longer than in carnivores?
- Q13. Leaves of a healthy potted plant were coated with Vaseline to block the stomata. Will this plant remain healthy for long? State three reasons for your answers.
- Q14. Name the glands associated with digestion of starch in human digestive tract and mention their role.
- Q15. How is required pH maintained in the stomach and small intestine?
- Q16. Bile juice does not contain any digestive enzymes, yet it is essential for digestion, why so? Explain.
- Q17. If one holds his breath after expiration for about 30 seconds. Would there still be occurring any exchange of respiratory gases in the lungs during the period? Explain.

- Q18. Mention the components of the transport system in highly organized plants. State the functions of these components.
- Q19. Name the respiratory organs of animals like fish that live in water.
- Q20. Explain the mode of nutrition in fungi like bread mould, yeast and mushrooms.
- Q21. What makes the R.B.Cs red and what is its function?
- Q22. Explain the structure of nephron with the help of a labeled diagram.
- Q23. Where is urine stored and how is it excreted out?
- Q24. Write down the differences between blood and lymph?
- Q25. Write down the differences between respiration and photosynthesis?
- Q26. Set up an experiment to prove that chlorophyll is necessary for photosynthesis. Write down the precautions required.
- Q27. If a plant is releasing carbon dioxide and taking in oxygen during the day, does it mean that there is no photosynthesis occurring? Justify your answer.
- Q28. What would happen if green plants disappeared from earth?
- Q29. What is glycolysis?
- Q30. How will you prove that CO<sub>2</sub> is produced during alcoholic fermentation?