

Board – CBSE

Class – 10

Topic – Life Processes

1. Define nutrition? What are the different modes of nutrition?
2. What is the mode of nutrition in fungi?
3. Name the pigment which can absorb solar energy.
4. Name the two stages in photosynthesis.
5. Name the factors which affect photosynthesis.
6. Define a herbivore and a carnivore.
7. How does amoeba engulf its food?
8. Name the parts of the digestive system of a grasshopper.
9. What are the functions of the liver and the pancreas?
10. Define breathing.
11. How is respiration different from breathing?
12. In which kind of respiration more energy released?
13. Which part of the root is involved in exchange of respiratory gases?
14. Explain the function of (i) Stomata (ii) Lenticels
15. What are enzymes? Name any one enzyme of our digestive system and write its function.
16. In single celled organisms diffusion is sufficient to meet all their requirements of food, exchange of gases or removal of wastes but it is not in case of multicellular organisms. Explain the reason for this difference.
17. Draw a neat and labeled diagram of human excretory system.
18. Name the acid presents in the following:
(i) Tomato (ii) Vinegar (iii) Tamarind
19. State the role of the following in human digestive system :
(i) Digestive enzymes (ii) Hydrochloric acid (iii) Villi
20. (a) Explain how the exchange of gases occurs in plants across the surface of stems, roots and leaves.
(b) How are water and minerals transported in plants?
21. Mention the raw materials required for photosynthesis.
22. Why do herbivores have longer small intestine than carnivores?
23. Write correct sequence of four steps of method for the preparation of temporary mount of a stained leaf peel.

24. In mammals and birds why is it necessary to separate oxygenated and de-oxygenated blood?
25. Draw a neat diagram of excretory system of human beings and label on it:
 - (i) Left kidney (ii) Urinary bladder
26. What would be the consequences of deficiency of haemoglobin in your body?
27. List three characteristics of lungs which make it an efficient respiratory surface.
28. (a) What is the role of HCl in our stomach?
 - (b) What is emulsification of fats?
 - (c) Which protein digesting enzyme is present in pancreatic juice?
29. Draw a diagram of human excretory system and label renal artery and urethra.
State in brief the function of :
 - (i) Renal artery
 - (ii) Kidney
 - (iii) Ureter
 - (iv) Urinary bladder
30. (a) Draw a diagram of excretory system in human beings and label the following parts.
Aorta, kidney, urinary bladder and urethra.
 - (b) How is urine produced and eliminated?
31. Why do the walls of the trachea do not collapse 'when there is less air in it'?
32. Give two points of differences between respiration in plants and respiration in animals.
33. Name the respiratory organs of
 - (i) fish
 - (ii) mosquito
 - (iii) earthworm
 - (iv) dog
34. From where do the following take in oxygen?
 - (i) prawn (ii) rat.
35. State the function of epiglottis.
36. Define photolysis.
37. What are the living organisms that cannot make their own food called?
38. What are chemotrophs?
39. What is the name given to the process of using the absorbed food for producing energy?
40. Explain the role of light in photosynthesis.