

**SHREE SANATAN DHARM EDUCATION CENTRE**  
**CLASS X (2016-17) BIOLOGY WORKSHEET-1 Topic: Nutrition**

Date: 18.4.16

**I. Name the following-**

1. The process responsible for the transfer of energy from outside source to the body of an organism.
2. The cells that surround the stomata pore.
3. Cellular energy reserve in plants and animals.
4. Plant cell organelle that can absorb solar energy.
5. Medium required for activity of pancreatic juice.
6. Mode of nutrition in amoeba and fungi.
7. Gland that secretes digestive enzymes as well as hormones.
8. Nitrogen needed by plants is taken in the form of.
9. Five examples of parasites.
10. Three examples of saprophytes.
11. Organisms who derive nutrition without killing them.
12. The canal which extend from mouth to anus.
13. A biological catalyst that breaks down the complex food into simple molecules.
14. The movement which allow the food to pass forward in gut because of rhythmic contraction of muscles of alimentary canal.
15. Site for absorption of water in alimentary canal.
16. The muscles which regulate the exit of food from stomach.
17. Largest part of alimentary canal.
18. Site for complete digestion.
19. The finger like projection of small intestine.
20. Gradual softening of enamel and dentine is known as\_\_\_\_\_.
21. Brushing of teeth removes\_\_\_\_\_.
22. Masses of bacterial cell and food particles stick to the teeth to form\_\_\_\_\_.
23. Microorganism invade the pulp and causes \_\_\_\_\_and\_\_\_\_\_.

**II. Answer the following questions;**

1. Differentiate:
  - a) Saprophytic and Parasitic nutrition
  - b) Autotrophic and Heterotrophic nutrition
2. How is small intestine designed to absorb digested food?
3. How are fats digested in the body?
4. Describe the process of nutrition in amoeba. Draw related diagrams.
5. What is the function of digestive enzymes?
6. Explain the role of the following in the process of digestion in human body-
  - a) Saliva
  - b) Gastric juices
  - c) Trypsin
  - d) Lipase
  - e) bile juice
  - d) mucus
  - e) HCl
7. Define nutrition. Why is nutrition so important for an organism?
8. What is photosynthesis? Write a chemical equation to show the process of photosynthesis in plants.
9. Name the raw materials required for the photosynthesis. How do plants obtain these materials?
10. What are adaptations in leaves for photosynthesis?
11. "Simple diffusion is sufficient to meet the requirements of single celled organism but not of multicellular organism". Justify the statement
12. Why are molecular movement needed for life?
13. How does paramecium obtain its food?
14. 'Herbivores have longer small intestine than the carnivores'. Give proper reason.
15. Write a short note on dental caries.
16. Write important functions of-a) stomata (4 imp functions) b) guard cells c) subsidiary/ epidermal cells
17. Write about 3 imp events which take place during photosynthesis.
18. How does desert plant prepare their food?
19. 'Light is essential for photosynthesis'. Justify this statement with the help of an experiment.

**Note:** Read all the activities given in NCERT .DO Q.N. 2, 3,5,11,13,14,16 & 18 in biology notebook.