

**INTERNATIONAL INDIAN SCHOOL, RIYADH.**  
**SAI WORKSHEET-2015-16**  
**SUBJECT: BIOLOGY                      STD: X**

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1. Define the following terms:

- a. Life Processes.
- b. Nutrition.
- c. Respiration.
- d. Excretion.

2. Define Photosynthesis. List the three events which occur during this process. Does these events occur one after the other immediately. Justify your answer with an example.

3. Explain the process of Nutrition in Amoeba with the help of diagrams.

4. Draw a labelled diagram of Human Alimentary Canal.

5. How are fats digested in our body? Where does this process takes place?

6. Draw a labelled diagram of Stomata in open and closed states. State two functions of stomata.

7. Explain the process of digestion in human stomach.

8. Explain the process of digestion in the small intestine of human beings.

9. What do you mean by peristalsis?

10. What is the difference between breathing and respiration?

11. Explain the different ways in which glucose is oxidised to provide an energy in various organisms.

12. Draw a labelled diagram of human respiratory systems. Explain the parts of human respiratory system.

13. How are alveoli designed to maximised the exchange of gases?

14. Draw a labelled diagram sectional view of human heart. Differentiate between single and double circulation with example.

15. Describe double circulation in human beings. Why is it necessary?
16. Names the three kinds of blood vessels and state the function of each one/
17. Name the components of the blood and write the functions of each one.
18. a. Give two reasons why plants have very low energy needs.  
b. What is transpiration? How does transpiration helps in the absorption & transport of water and minerals in plants.
19. How water and minerals are transported in plants?
20. Write a short note on lymph.
21. How is food transported in plants?
22. Draw a labelled diagram of human excretory system of human beings. Sata two functions of human kidneys.
23. Draw a labelled diagram of excretory unit of a kidney.Explain its function in the formation of urine.
24. Distinguish between aerobic and anaerobic respiration.
25. Distinguish between autotrophic and heterotrophic nutritions with examples.
26. Write the features which are common to each of the following phase of terms/organs:
  - i. Glycogen and starch.
  - ii. Chlorophyll and haemoglobin.
  - iii. Gills and lungs.
  - iv. Arteries and veins.
27. Why do herbivores have a longer small intestine than the carnivores .
28. How is small intestine designed for the absorption of digested food?
29. Differentiate between parasitic and saprophytic mode of nutrition.
30. Why are capillaries extremely thin walled and highly branched