INDIAN SCHOOL NIZWA WORK SHEET

BIOLOGY
CH:5- FUNDAMENTAL UNIT OF LIFE -Work sheet

Name: _____ Date:_____ Class: IX Sec: ABC

1. State the reason for calling cell membrane as selectively permeable membrane.
2. List the constituents of plasma membrane.
3. (a)Why the cell is called the structural and functional unit of life?
   (b) Name the factor which decides the movement of water across the plasma membrane.
4. What are the main postulates of the cell theory?
5. What is endocytosis? Name an organism which acquires food through this process
6. Define diffusion and Osmosis
7. Write the importance of diffusion and osmosis in plants and animals.
8. State reason for the following:

. i) Plant cells shrink when kept in hypertonic solution. .
   ii) What would happen if an animal cell is kept in distilled water for 24 hours?

9. Give any three points of difference between prokaryotic and eukaryotic cells.
10. What is plasmolysis?
11. How do fungi and bacteria withstand greater changes in the surrounding medium than animal cells?
12. Give the function of nuclear membrane.
13. What is gene? Where are they located? Write their function.
14. What are cell organelles? Name them
15. Why is ER called the transport system of a cell?
16. Write the differences between RER and SER.
17. Write the functions of SER.
18. What is membrane biogenesis?

Short Answer Questions

19. What happens to substances such as CO_2 or water when they move in and out of the cells freely? Discuss.
20. What are the locations of proteins synthesised in cells?
21. What would happen if the Golgi apparatus was not there?
22. **. The grass looks green, papaya appears yellow. Which cell organelle is responsible**
    Explain .
23. Draw a neat diagram of plant cell and label any three parts which differentiate it from animal cell.
24. In brief state what happens when:
    (a) dry apricots are left for sometime in pure water and later transferred to sugar

solution?

(b) a red blood cell is kept in concentrated saline solution?

(c) the plasma membrane of a cell breaks down?

(d) rheo leaves are boiled in water first and then a drop of sugar syrup is put on it?

(e) golgi apparatus is removed from the cell?

25. What are the colours absorbed by plants? The green light of the sunlight is blocked. How will the photosynthesis be affected?