

REVISION ASSIGNMENT : the **Fundamental unit of life** (BIOLOGY)

CLASS – 9 ,term1 ,2013-14

- Q1. Explain the history of discovery of cell .
- Q2. Describe cell on the basis of its complexity i.e prokaryotic and eukaryotic .
- Q3. Describe the structure and functions of nucleus.
- Q4. How is mitochondria important for a cell ?
- Q5. Describe the structure and functions of the two types of endoplasmic reticulum.
- Q6. Why are lysosomes called as suicide bags ?
- Q7. Plastids are present only in plants . comment .
- Q8. Differentiate between a plant cell and an animal cell .
- Q9. Write a short note on vacuoles.
- Q10 Describe the chemical composition of cell wall.
- Q11.(a) What is DNA? Where is it found?
- (b) Name the functional segment of DNA.
- Q12. List two similarities between mitochondria and plastids.
- Q13. Name the organelle that is referred to as the 'powerhouse of the cell'. Why is it called so?
- Q14. Mention any two functions of the endoplasmic reticulum.
- Q15. Give the functions of the following organelles in a cell.
- a) Chloroplast b) Nucleus c) Leucoplast d) Chromoplast
- Q16. Write the names of two cell organelles that have their own DNA and ribosomes.
- Q17. What is endocytosis? Name an organism that feeds by this method.
- Q18. Give technical term for a medium which has exactly the same concentration as the cell? Why does the size of the cell remain the same when placed in such a solution ?
- Q19. (a) What would happen to the life of a cell if there was no Golgi apparatus?
- (b) Which cell organelle detoxifies poisons and drugs in liver of vertebrates?
- Q20. State cell theory. Name the scientists who presented it.

- Q21. What is plasmolysis? Give its one example.
- Q22. What will happen to a plant cell if it is kept in a:
- (i) hypotonic solution
 - (ii) hypertonic solution.
- Q23. Write two differences between plasma membrane and cell wall.
- Q24. Why are lysosomes also known as “scavengers of the cells”?
- Q25. How can mitochondria make their own protein?
- Q26. Why do plant cells possess large sized vacuole?
- Q27. A person takes concentrated solution of salt, after sometime, he starts vomiting. What is the phenomenon responsible for such a situation?
- Q28. How do substances like carbon dioxide and water move in and out of the cell?
- Q29. What is a nucleoid?
- Q30. What is the difference between diffusion and osmosis?