Chapter- 1

Worksheet-2

1. Assertion (A): Ribosomes are present in both eukaryotes and prokaryotes.

   Reason (R): Ribosomes are the sites of protein synthesis.

   (a) Both A and R are true and R is the correct explanation of A.

   (b) Both A and R are true but R is not the correct explanation of A.

   (c) A is true but R is false.

   (d) A is false but R is true.

2. _____ and _____ their own DNA and ribosomes.

3. _____ is the packaging and dispatching unit of the cell.

4. Name the organelles which act as transporting channels of the cell _____.

5. Which of the following can be made into crystal?

   (a) A Bacterium (b) An Amoeba

   (c) A Virus (d) A Sperm

6. The only cell organelle seen in prokaryotic cell is

   (a)Mitochondria (b) ribosomes (c) Plastids (d) lysosomes

7. Lipid molecules in the cell are synthesized by
   (a) smooth endoplasmic reticulum
   (b) rough endoplasmic reticulum
   (c) Golgi apparatus
   (d) plastids

8. Plasmolysis in a plant cell is defined as
   (a) break down (lysis) of plasma membrane in hypotonic medium
   (b) shrinkage of cytoplasm in hypertonic medium
   (c) shrinkage of nucleoplasm
   (d) none of them

9. The root hair absorbs water by the process called
   (a) diffusion (b) osmosis
   (c) endocytosis (d) plasmolysis

10. The nucleus of the cell was discovered by
   (a) Robert Hooke (b) Leeuwenhoek
   (c) Robert Brown (d) Purkinje

11. Where are genes located?

12. Name two structures found in plant cells but not in animal cells.

13. How does fungi and bacteria can withstand much greater changes in the surrounding medium than animal cells?

14. What is endocytosis?

15. What is the function of nucleus in a cell?

16. Define diffusion, Differentiate between diffusion and osmosis.

17. What are the functional differences between a plasma membrane and cell wall?

18. Draw a neat diagram of plant cell and label any three parts which differentiate it from animal cell.

19. Differentiate between mitosis and meiosis.

20. How is a prokaryotic cell different from a eukaryotic cell?