

## EXERCISE # 1

### A. Single Choice Type Questions

- Q.1** Striking difference between a plant cell and an animal cell is due to the presence of -  
 (A) Centrosome (B) Plasma membrane  
 (C) Cell wall (D) Chloroplast
- Q.2** The main function of a plasma membrane is to -  
 (A) Prevent water from entering or leaving  
 (B) Control what goes into and out of the cell  
 (C) Act as a sieve, allowing only lipids to pass  
 (D) Move the cell from place to place
- Q.3** Who first coined the word "cell" ?  
 (A) Aristotle (B) Hooke  
 (C) Schwann (D) Leuwenhoek
- Q.4** The smallest organelles in a cell are -  
 (A) Lysosomes (B) Spherosomes  
 (C) Peroxisomes (D) Ribosomes
- Q.5** All are membrane bounded cell organelles except -  
 (A) Mitochondria (B) Spherosomes  
 (C) Ribosomes (D) Lysosomes
- Q.6** Major function of Golgi body is -  
 (A) Secretion  
 (B) Regulation of cell temperature  
 (C) Active transport  
 (D) Transportation
- Q.7** Smooth endoplasmic reticulum is well developed in the cells, which synthesise -  
 (A) Steroids and Lipids (B) Carbohydrates  
 (C) Proteins (D) All the above
- Q.8** The name suicide bag has been given to -  
 (A) Centrioles (B) Ribosome  
 (C) Mitochondria (D) Lysosome
- Q.9** Organisms lacking a nucleus and membrane-bound organelles are called:  
 (A) Diploid (B) Haploid  
 (C) Prokaryotes (D) Eukaryotes
- Q.10** The growth of cells is regulated by -  
 (A) Mitochondrion (B) Vacuole  
 (C) Nucleus (D) Golgi complex
- Q.11** The centriole is associated with -  
 (A) DNA synthesis (B) Cell division  
 (C) Circulation (D) Respiration
- Q.12** Proteins are formed in the -  
 (A) Golgi complex (B) Mitochondria  
 (C) Plastids (D) Ribosomes
- Q.13** Genes are located on the -  
 (A) Nuclear membrane  
 (B) Chromosomes  
 (C) Lysosomes  
 (D) Cell membrane
- Q.14** Animal cell does not have -  
 (A) Mitochondria (B) Chloroplast  
 (C) Nucleus (D) Cytoplasm
- Q.15** Plant cell does not have -  
 (A) Lysosome (B) Cell wall  
 (C) Chloroplast (D) Vacuoles
- Q.16** Which of the following is considered as 'Kitchen' of the plant cell ?  
 (A) Chloroplast (B) Chromoplast  
 (C) Leucoplast (D) None
- Q.17** Which organelle acts as the suicidal bag of the cell ?  
 (A) Centrosome (B) Lysosome  
 (C) Mitochondria (D) Ribosome
- Q.18** Which of these is a unicellular organism ?  
 (A) Mushroom (B) Onion  
 (C) Amoeba (D) Tissues

- Q.19** Levels of organization can be seen only in -  
(A) Unicellular organisms  
(B) Multicellular organisms  
(C) Plant only  
(D) Animals only
- Q.20** In plant cells, cell wall is made up of -  
(A) Cellulose (B) Protein  
(C) Fat (D) A viscous fluid
- Q.21** 'Controller of cell' is a -  
(A) Nucleus (B) Mitochondria  
(C) Vacuoles (D) Genes
- Q.22** Site of protein synthesis is the -  
(A) Ribosomes (B) Nucleosomes  
(C) Dictyosomes (D) Lysosomes
- Q.23** Cell was first observed by -  
(A) Robert Brown  
(B) Robert Hooke  
(C) Antony van Leeuwenhoek  
(D) None of these

**B. Fill In The Blanks**

- Q.24** .....is the control centre of the cell.
- Q.25** Lysosomes are called the.....
- Q.26** .....is the structural and functional unit of life.
- Q.27** Several cells combine to form .....
- Q.28** Size of the egg of ostrich is..... mm.

**EXERCISE # 2****A. Very Short Answer Types Questions**

- Q.1** Define the term cell.
- Q.2** What is the function of endoplasmic reticulum ?
- Q.3** Name the three types of plastids.
- Q.4** Name the largest and smallest cell known to you.
- Q.5** Expand the terms : RNA and DNA.
- Q.6** Name the instrument used for viewing a cell.
- Q.7** Which cell organelle is called as brain of the cell ?
- Q.8** Which cell organelle is known as power house of the cell ?

**B. Short Answer Types Questions**

- Q.9** Why do we call cells as building blocks of life ?
- Q.10** What are unicellular and multicellular organisms ?
- Q.11** What are organelles and where are they present in a cell ?
- Q.12** What is the difference between prokaryote and eukaryote cell ?
- Q.13** What is the size of PPLO ?
- Q.14** Define the nucleus of a cell and its function in the cell.

**Q.15** What are chromosomes ? Where are they present in a cell ?

**Q.16** What is the function of a cell membrane ?

**Q.17** Make a sketch of a human nerve cell.

**C. Long Answer Types Questions**

**Q.18** List four differences between a plant cell and an animal cell.

**Q.19** What are the functions of the three different kinds of plastids ?

**Q.20** Which organelle is called as power house of the cell ? Why is it called so ?

**Q.21** Draw a neat diagram of a typical cell and label at least five parts in it.

**Q.22** Write a short note on Ribosome ?

**Q.23** Write a short note on nucleus ?