

CBSE – Science – IX – Important Q.A.

Ch. 5 a –The Fundamental unit of life.

Syllabus – Cell as a basic unit of life; prokaryotic and eukaryotic cell, multicellular organism; cell membrane and cell wall, cell organelles; chloroplast, mitochondria, vacuoles, ER, Golgi apparatus; nucleus, chromosomes – basic structure, number.

Q.1. Name the instrument used to see internal structure of onion peel cell.

Ans.: - Compound Microscope.

Q.2. Do all the organism have same types of basic building units?

Ans.: - Yes.

Q.3. The shape and size of a cell are related to what?

Ans.: - It is related to the specific function they perform.

Q.4. What constitute the basic building block of a cell?

Ans.: - Cell organelles.

Q.5. Name some unicellular organisms and fungi.

Ans.: - Plasmodium (Malaria parasite), Bacteria, Chlamydomonas.

Q.6. Name single celled animals.

Ans.: - Amoeba, Paramecium, Euglena, Dictyostellium, Diatoms, Trypanosome, Trichonympha.

Q.7. Who discovered cells ?

Ans.: - Robert Hooke.

Q.8. Name three features common to all cell.

Ans.: - Plasma membrane, nucleus, cytoplasm.

Q.9. Name the outermost covering of an animal cell.

Ans.: - Plasma membrane.

Q.10. Name the outermost covering of the plant cell.

Ans.: - Cell wall.

Q.11. What is the function of cell wall?

Ans.: - Gives rigidity, shape and protection to plant cell.

Q.12. What is the function of plasma membrane?

Ans.: - Allows only selected materials to move in and out of the cell.

Q.13. What are cell organelle?

Ans.: - It is functional unit of cell.

Q.14. Name the largest animal cell.

Ans.: - An ostrich egg.

Q.15. Name the smallest cell.

Ans.: - Pleuro Pneumonia like organisms (PPLO).

Q.16. Name the longest flowering plant cell.

Ans.: - The fibre.

Q.17. Name the longest animal cell.

Ans.: - The nerve cell.

Q.18. Name the largest plant cell.

Ans.: - Acetabularia.

Q.19. Is cell wall living or dead?

Ans.: - Dead.

Q.20. Is plasma membrane living or dead?

Ans.: - Living.

Q.21. What process is involved in the movement of oxygen from outside to inside and carbondioxide from inside to outside the cell.

Ans.: - Diffusion.

Q.22. Which process is involved in the movement of water from outside into the cell?

Ans.: - Osmosis.

Q.23. What happens when an egg without shell placed in concentrated salt solution for 5 minutes.

Ans.: - The egg loses water and shrinks.

Q.24. What happens when an egg without shell placed in pure/distilled water for 5 minutes.

Ans.: - The egg gain water and swells.

BEST OF LUCK