

Assignment-2 Subject: - Science Class: - IX Teacher: - Mrs. Sandhya Sood

Name: _____ Class & Sec: _____ Roll No. _____ Date: 20.04.2020

BIOLOGY: CELL-FUNDAMENTAL UNIT OF LIFE

- 1) The cell is a fundamental, structural and functional _____ of living organisms and basic _____ of life.
- 2) All _____ are made up of cells.
- 3) Cells make tissues, tissues together make organ, and organs make organ _____ and organ _____ make body of organisms.
- 4) Cell is called structural unit of _____.
- 5) All the basic functions of the body like respiration, excretion are carried out by _____ through its _____ organelles, so _____ is called functional unit of life.
- 6) Cell was first discovered by _____ in _____.
- 7) Two biologists _____ and _____ presented the cell theory which says that all the plants and animals are composed of cells and that the cell is basic unit of life
- 8) All cells are basically alike in chemical _____ and metabolic processes.
- 9) Some cells like _____ and WBCs have changing shapes.
- 10) The smallest cell in human body is _____ and the longest one is the _____
- 11) The prokaryotes include archaic bacteria, bacteria and cyanobacteria (blue green _____).
- 12) _____ membrane is living, thin, delicate, elastic, selectively permeable membrane and is flexible and made up of organic molecules called lipids and proteins.
- 13) Substances can pass across a membrane by two processes _____ and _____
- 14) _____ is the spontaneous movement of molecules from a region of its higher concentration to a region of its lower concentration.
- 15) The movement of water molecules through a selectively permeable membrane from a region of higher water concentration to a region of lower water concentration is called _____.
- 16) If the medium surrounding the cell has a higher water concentration than the cell, then the cell will gain water by osmosis. Such a dilute solution is called _____

- 17) The swelling up and increase of volume of cell as a result of water movement inside the cell is known as _____
- 18) If medium surrounding the cell is exactly the same water concentration as the cell, there will be no net movement of water across the plasma membrane resulting in no change in the size of the cell. Such a solution is called _____
- 19) If the medium surrounding the cell has a lower concentration of water than the cell, then cell will lose water by osmosis. Such a concentrated solution is called _____
- 20) The shrinking and reduce in volume of cell as a result of water movement outside is known as _____
- 21) _____ is a kind of carbohydrate (polysaccharide) and provides structural strength to the plant.
- 22) _____ protects cell membrane and the internal structures of the cell.
- 23) All cells contain living substance called _____ which is jelly-like, viscous, colourless semi-fluid substance in which various cell organelles and inclusion remains in colloidal form.
- 24) _____ is part of protoplasm which surrounds the nucleus.
- 25) _____ is part of protoplasm which is located inside the nucleus.