

# CLASS IX-BIOLOGY

## FUNDAMENTAL UNIT OF LIFE

### Assignment-2

#### MULTIPLE CHOICE QUESTIONS - 2.1

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- Plasma membrane is made up of
  - Proteins and carbohydrates
  - Proteins and lipids
  - Proteins and nucleic acids
  - Proteins, some nucleic acids and lipids
- Plant cell wall is mainly composed of
  - Sugars
  - Cellulose
  - Proteins
  - lipids
- Nucleus was discovered of
  - Robert Brown
  - Robert Hooke
  - A.V. Leeuwenhoek
  - Schwann
- A solution is said to be hypotonic when
  - Concentration of medium is higher than that of the cell
  - Concentration of medium is equal to that of the cell
  - Concentration of medium is lower than that of the cell
  - None of the above are correct.
- Cell wall shows
  - Complete permeability
  - semipermeability
  - Differential permeability
  - impermeability
- Plasma membrane is -
  - Impermeable
  - formed of cellulose
  - selectively permeable
  - nonselective
- Ribosome was named by -
  - Palade
  - Porter
  - de Duve
  - Koliker
- Ribosome consist of -
  - DNA and protein
  - RNA and protein
  - RNA and amino acids
  - RNA and DNA
- The solution having concentration equal to the concentration of solution of inside the cell is called as
  - Isotonic solution
  - hypotonic solution
  - Hypertonic solution
  - all of the above
- If a cell will be placed in hypotonic solution what will happen to it ?
  - The cell will swell and burst
  - The cell will become flaccid
  - It will remain unchanged
  - None of the above

## SUBJECTIVE QUESTION - 2.2

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### VERY SHORT ANSWER TYPE QUESTIONS

1. Who gave the fluid mosaic model of plasma membrane ?
2. Movement of solvent into the cell is called as.....
3. Which cell organelle is called as the head quarter of cell?

### SHORT ANSWER TYPE QUESTIONS

4. What is the difference between diffusion and osmosis?
5. Why plasma membrane is called as selectively permeable membrane ?

### LONG ANSWER TYPE THE QUESTION

6. Draw a neat and labeled diagram of nucleus. State its main function.

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