

**CELL : THE BASIC UNIT OF LIFE****[Cell Introduction , Prokaryotic cell and Plasma Membrane]**

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Q.1 Multiple choice questions :

[ 1 X 5 = 5 ]

- 1) Branch of biology connected with the study of structure, genetics and function of cell is
  - a) Cytology
  - b) Karyology
  - c) Cell biology
  - d) Cytometry
- 2) Schleiden and Schwann proposed :
  - a) Phenomenon of Brownian movement
  - b) Cell theory or cell doctrine
  - c) Protoplasm as physical basis of life
  - d) None of the above
- 3) The genetic material in prokaryotes is :
  - a) not envelope by any membrane
  - b) Associated with histones
  - c) enveloped by nuclear membrane
  - d) do not contain genetic material
- 4) Correct sequence of layers of bacterial cell envelope is :
  - a) Cell membrane → Glycocalyx → cell wall
  - b) Glycocalyx → cell wall → Cell membrane
  - c) Cell wall → Glycocalyx → cell membrane
  - d) Glycocalyx → cell membrane → Cell wall
- 5) Mesosomes were taken as :
  - a) Golgi bodies
  - b) Plastids
  - c) Mitochondria
  - d) ER

- Q.2 Define why cell is call the basic unit of life? [ 1 ]
- Q.3 Among unicellular organisms , Smallest cell without cell wall is \_\_\_\_\_. [ 1 ]
- Q.4 The theory of lineage was given by \_\_\_\_\_. [ 1 ]
- Q.5 Define polysomes. [ 1 ]
- Q.6 Cell wall of bacteria is made up of \_\_\_\_\_. [ 1 ]
- Q.7 In cyanobacteria, inward extension of plasma membrane is known as \_\_\_\_\_. [ 1 ]
- Q.8 Differentiate between Prokaryotic cell and Eukaryotic cell. [ 2 ]
- Q.9 What is a mesosome in prokaryotic cell? Mention their functions. [ 2 ]
- Q.10 What are the postulates of cell theory? [ 3 ]
- Q.11 Draw well labelled diagram of Animal cell. [ 3 ]
- Q.12 Write a short note of structure of plasma membrane of Eukaryotic cell, also draw labelled diagram of plasma membrane. [ 4 ]

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**Max Time : 1 hr**

**Class = 11<sup>th</sup> Biology Test**

**Max Marks : 25**

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