**Neha Malhotra** **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **Class = 11th Biology Test**  **Max Marks : 25**

**CELL : THE BASIC UNIT OF LIFE**

**[Cell Introduction , Prokaryotic cell and Plasma Membrane]**

1. Multiple choice questions : [ 1 X 5 = 5]
2. Branch of biology connected with the study of structure, genetics and function of cell is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cytology | b) Karyology | c) Cell biology | d) Cytometry |

1. 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 |

1. 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 |

1. 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 |

1. Mesosomes were taken as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Golgi bodies | b) Plastids | c) Mitochondria | d) ER |

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

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