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**Max Time : 1 hr** **Class = 9th Science Test Max Marks : 25**

**FUNDAMENTAL UNIT OF LIFE**

**[Upto Plasma Membrane]**

1. Multiple choice questions : [ 1 X 5 = 5]
2. Cell theory was given by :

|  |  |
| --- | --- |
| a) Schleiden and Schwann | b) Virchow |
| c) Hooke | d) Haeckel |

1. The only cell organelle seen in prokaryotic cell is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Mitochondria | b) Ribosomes | c) Plastids | d) Lysosomes |

1. Living cell were discovered by :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Robert Hooke | b) Purkinje | c) Leeuwenhoek | d) Robert brown |

1. If a membrane allows passage of solvent freely but selects the passage of specific solute particles, it is called as :

|  |  |
| --- | --- |
| a) Impermeable | b) Permeable |
| c) Semi-permeable | d) Selectively permeable |

1. Fluid mosaic model was presented by :

|  |  |
| --- | --- |
| a) Singer and Nicolson (1972) | b) Danielli and Davson (1935) |
| c) Robertson (1959) | d) Robert brown (1858) |

Fill In the Blanks : [ 1 x 3 = 3 ]

1. Cells are the \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ units of all organisms.
2. Yeast, bacteria and all protists are examples of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms, wherein a single cell constitutes the whole organism.
3. If a membrane allow penetration of only solvent molecules but not the solute particles, it is called \_\_\_\_\_\_\_\_\_\_\_\_\_.
4. What is the living component of the cell? [ 1 ]
5. What is nucleoid? [ 1 ]
6. Who discovered Cell and How? [ 2 ]
7. Why cell is called the structural and Fundamental unit of life? [ 2 ]
8. Name the proteins present in plasma membrane , also define them. [ 2 ]
9. Differentiate between Unicellular and Multicellular Organisms. [ 2 ]
10. Differentiate between Prokaryotic cell and Eukaryotic cell [ 2 ]
11. What would happen when plasma membrane of cell are rupture? [ 2 ]
12. What are the Postulates of Cell Theory? [ 3 ]