

NB: (1) Question No.1 is compulsory.

(2) Attempt any 3 questions from remaining Q2 to Q6.

(3) Each question is of 20 marks.

(4) Figures to right indicates full marks.

- Q.1- a) Explain in detail about the different stages of mitosis. 10M  
b) Explain the different types of intercellular signalling. 10M
- Q.2 Write Short Notes for the following. (**any 4**) 20M  
a) Endocytosis  
b) Selectins  
c) Rough Endoplasmic Reticulum  
d) Cyclins  
e) Collagen
- Q.3 Explain the following with a neat diagram. 20M  
a) Motor proteins                      b) IgSF  
c) Plant cell                              d) Cell cycle
- Q.4 a) Discuss in detail about movement of materials through Golgi complex. 10M  
b) Explain the receptor dimerization of RTK. 10M
- O.5 a) Explain any two components of extracellular matrix. 10M  
b) Explain in detail about passive transport. 10M
- Q.6 a) Explain in detail about Extrinsic pathway of programmed cell death. 10M  
b) Explain the structure and function of cell wall. 10M

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