

(3 Hours)

Total Marks: 80

- 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 meiosis **10**
 b) Explain in detail about different types of Passive transport **10**
- Q.2 Write Short Notes for the following. (Any 4) **20**
 a) Virus
 b) Cyclins
 c) Intermediate filaments
 d) Lysosomes
 e) Hemidesmosomes
- Q.3 Explain the following with a neat diagram **20**
 a) Motor proteins b) Adherens junction
 c) Animal Cell d) Ion pumps
- Q.4 a) Discuss in detail overview of cellular signalling pathway. **10**
 b) Compare SER and RER **10**
- O.5 a) Explain the role of adhesion molecules in cell adhesion **10**
 b) Explain in detail about Gap Junctions **10**
- Q.6 a) Explain in detail about Microtubules. **10**
 b) Explain the structure and function of Golgi bodies **10**