

(3 Hours)

Total Marks: 80

NB: (1) Question No.1 is compulsory

(2) Attempt any 3 questions out of remaining 5 questions

(3) Each question is of 20 marks

(4) Figures to right indicates full marks

- Q.1- a) Explain the structure of Viruses. Enlist some important Function of Viruses 10  
 b) Write a note on structure & function of Prokaryotic Cell and Eukaryotic Cell 10
- Q.2 Write Short Notes on Four of the following 20  
 a- Function of Cells  
 b- Endocytosis  
 c- Autophagy  
 d- Cytoskeleton  
 e- Osmosis  
 f- Cell adhesion
- Q.3 Draw & Explain in Short with labelled Diagram of the Following 20  
 a) Plant Cell b) Prophase of Meiosis I  
 c) Golgi Apparatus d) Phagocytosis
- Q.4 a) Discuss the structural organization and function of Nucleus and Endoplasmic reticulum 10  
 b) Write a note on cell adhesion and roles of different adhesion molecules 10
- Q.5 a) Explain gap Junction, Desmosomes and tight junction with proper Diagram 10  
 b) What is Tumor? Explain Characteristic of Growing Tumor 10
- Q.6 a) Discuss mechanism of programmed cell death 10  
 b) Discuss different stages of Mitosis 10