Paper / Subject Code: 49004 / CELL BIOLOGY

1T00413 - S.E.(BIOTECHNOLOGY)(Sem III) (CBSGS) / 49004 - CELL BIOLOGY Q.P. Code :11678

[Time: 03 Hours]

[Marks:80]

		Please check whether you have got the right question paper. N.B: 1. Question no.1 is compulsory 2. Asnwer any 3 questions out of remaining 5 questions. 3. Figures to right indicate full marks. 4. Draw diagram wherever necessary	
1.	a)	Write short notes on any four of the following a. Metastasis b. Endocytosis c. Cytoskeleton d. Osmosis e. Hemidesmosomes	20
2.	a) b)	Explain the structure of viruses. Enlist some important functions of viruses. Write a note on structure & function of prokaryotic cell and eukaryotic cell.	10 10
3.		Discuss the structural organization and function of nucleus and endoplasmic reticulum. Write a note on cell adhesion and roles of different adhesion molecules.	10 10
4.	a)	Draw & explain in short with labelled diagram of the following a) Animal cell b) Prophase of Meosis c) Nuclear pore complex d) Phagocytosis	10 10
5.	a) b)	Explain gap junction, desmosomes and tight junction with proper diagrams. What is tumor? Explain characteristic of growing tumor.	10 10
6.	•	Discuss mechanism of programmed cell death. Disucss different stages of mitosis.	10 10