TE-Biomed SEMI CBCGS

[3 Hrs]

Total Marks: 80

N.B

2)	Question No. 1 is compulsory. Attempt any three questions out of remaining five questions. Figures to the right indicate full marks. Assume suitable data if necessary, stating your assumption.	
Q1.	b) Explain with suitable diagram working of Insulin Pump. c) Explain the optical ray diagram of spectrophotometer.	[05] [05] [05] [05]
Q2.	a) Explain protein separation technique using electrophoresis.	[10]
	b) Explain using suitable diagram working of an Auto-analyser.	[10]
Q3.	a) Draw and explain the working of Coulter's Blood Cell Counter.	[10]
	b) Explain using Spirogram various lung volumes and capacities.	[10]
Q4.	a) Elaborate the different techniques of ELISA? Give the applications of ELISA.	[10]
	b) Explain various modes of ventilators.	[10]
Q5.		[10]
	b) Explain using suitable block diagram working of Hemodialysis machine.	[10]
Q6.	Write short notes on any Four	
	a) Chromatography.	[05]
	b) List different types of dialyzers and explain any one.	[05]
	c) Peristaltic pump. d) Types of current in electrotherapy.	[05]
	e) Nitrogen washout technique.	[05]
		[05]