TE/Y/CBSGS/BIOMED/BI-I

N.B.: (1) Question No 1 is Compulsory

17

Q.P. Code: 564300

(3 Hours)

[Total Marks: 80

	(2)	Attempt any three questions from the remaining five	
	(3)	Figures to the right indicate full marks	
	(4)	Assume data wherever necessary	
1.	(a)	Explain dye dilution method of cardiac output.	5
	(b)	What is meant by positive and negative pressure ventilator?	5
	(c)	Explain Impedance plethysmography.	5
	(d)	What are the different types of microscopes? Give their applications.	5
2.	(a)	Explain Anaesthesia equipment in detail.	14
	(b)	Explain with block diagram working of colorimeter.	6
	2222 (40)		
3.	(a)	Explain pure tone Audiometry and speech audiometry.	10
	(b)	Explain coulter blood cell counter with near diagram.	10
	SVI WIII	Contrary losses	10
4.	(a)	Draw and explain block diagram of autoanalyser.	10
	(b)	Explain working of ear oximeter.	10
		1 - 1 - angliting with Spirogram	10
5.	(a)	Define various lung volumes and capacities with Spirogram.	10
	(b)	Describe ultrasonic blood flow method for blood flow measurement.	10
2		(A Course)	20
6.	Write short notes on (Any four)		20
		(a) ELISA reader and wash	
		(b) Electrophoresis	
	4	(c) Oxygenator in heart lung machine	
		(d) pCG ₂ electrode	
		(e) Masking in audiometry	