Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

	•	Code: 160302 Date: 21-05-2014	
Tiı	ne: 1	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a)	Explain different biochemical and pathological laboratory techniques in clinical diagnosis.	07
	(b)	Explain principle and construction of Coulter Counter for blood cell counting.	07
Q.2	(a) (b)	Explain the principle and block diagram of pulse oximeter. Write short notes on Incubator and Centrifuge. OR	07 07
	(b)	Write short notes on Autoclave and Hot air oven.	07
Q.3	(a) (b)	Enlist different types of chromatography and explain any one in detail. Explain the electrode used for blood pCO ₂ measurement. OR	07 07
Q.3	(a) (b)	Explain different types of radiation sources used in spectrophotometry. Explain different types of monochromator.	07 07
Q.4	(a) (b)	Explain the principle, block diagram and uses of glucometer. What is pH? Explain pH meter in detail.	07 07
Q.4	(a) (b)	OR Explain the principle, block diagram and uses of colorimeter. Describe the working of Semi Auto analyzer.	07 07
Q.5	(a) (b)	Explain the distal end of endoscope. Explain flame photometry. Draw & explain the block diagram of flame photometer.	07 07
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Q.5	(a) (b)	Explain endoscopy with its construction & types. Explain electron microscope in detail.	07 07
