GUJARAT TECHNOLOGICAL UNIVERSITY

Su	bject	BE - SEMESTER-VI- EXAMINATION – SUMMER 2016 Code:160302 Date:21/05/201	6
Ti	me: 1	Attempt all questions. Make suitable assumptions wherever necessary.	70
Q.1	(a) (b)	List the types of cell counting techniques and explain anyone in details. Define pH. Explain measurement of Clark oxygen electrode.	07 07
Q.2	(a)	List the components of pulse oximeter probe. Explain infrared light absorption in the finger in details.	07
	(b) (b)	State principle of absorption spectrophotometer. Explain types of optical filters. OR What is aerosol? Explain essentials parts of flame photometer.	07 07
Q.3	(a) (b)	Explain Endoscopy with a neat diagram. Explain electron microscope in detail.	07 07
Q.3	(a) (b)	OR Briefly describe the principle of Gel Electrophoresis. 1) Write a short note on Incubator. 2) Write a short note on auto pipette.	07 04 03
Q.4	(a) (b)	Classify types of chromatography. Explain HPLC with neat diagram. What is blood gas analyzer? Explain about complete blood gas analyzer with its block diagram.	07 07
Q.4	(a) (b)	OR Describe the working of Auto analyzer. What is the need of blood banking? Give its procedure and explain.	07 07
Q.5	(a) (b)	Explain Elisa reader. Draw and explain block diagram of colorimeter. OR	07 07
Q.5	(a)	Write short note on the following terms: (1) Centrifuge, (2) Laminar flow tables, (3) electronic balances, (4) Histokinette, (5) Hot air oven (6) Microtome (7) Dispenser & washer	07
	(b)	Short Note on Glucometer.	07
