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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 160303			
Tiı	_	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Explain the specification and circuit diagram of DC defibrillator. Explain requirement and application of implantable defibrillator.	07 07
Q.2	(a) (b)	Discuss the function and working of dialyzer. With block diagram explain working of hemodialysis machine. OR	07 07
	(b)	Compare parallel flow, coil and hollow fiber types of hemodialyser.	07
Q.3	(a)	Explain the terms; electrotomy, fulguration, coagulation and desiccation in surgical diathermy.	07
	(b)	Explain construction and working of surgical diathermy machine. OR	07
Q.3	(a) (b)	Explain types of LASER and their medical applications. Discuss the application of LASER for retinal detachment.	07 07
Q.4	(a) (b)	Explain the various electrodes and current waveforms used in electrotherapy. Write short note on; spinal cord stimulation. OR	07 07
Q.4	(a) (b)	Explain the principle and method used for phototherapy devices for incubator. What is Apnea? Explain the method of Apnea detection.	07 07
Q.5	(a) (b)	With schematic, explain anesthesia machine. What are the different types of patient breathing circuits? Explain. OR	07 07
Q.5	(a) (b)	What is a catheter? What are its applications? Explain the principle of coronary angiography technique.	07 07
