GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA ENGINEERING - SEMESTER-V • EXAMINATION – SUMMER 2013

Sul Tir	bject ne: 1 ructio 1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	-
Q.1	4. (a)	English version is considered to be Authentic. Explain construction and working of IR lamp	07
Ų.I	(a) (b)	Explain the effect of ultrasound on human body.	07 07
Q.2	(a) (b)	Explain construction and working of UV lamp Describe He-Ne diode laser using diagram	07 07
	(0)	OR	07
	(b)	Explain the working principle of ultrasound therapy transducer.	07
Q.3	(a)	Write short note on "short wave diathermy"	07
	(b)	Explain the muscle stimulator with applications. OR	07
Q.3	(a)	Write short note on "traction unit"	07
	(b)	Explain the electrosurgical unit with applications.	07
Q.4	(a)	Draw and explain block diagram of infusion pump.	07
	(b)	Explain incubator with application. OR	07
Q. 4	(a)	Explain the effect of shortwave on human body.	07
	(b)	Describe hemodialysis machine in detail.	07
Q.5	(a)	Explain the importance of heat balance in the human body and methods of	07
	(b)	balance for neonatal.	07
	(b)	Explain cutting and coagulation electrodes of cautry machine OR	07
Q.5	(a)	Write short note on "patient safety in cautry machnine"	07
	(b)	Explain application of lasser on human body.	07
