

## STONIED VITTE BMI-III VT-F.H.Exam. April(1)-17/178 BENGG BM SEM-VII BMI-III / 14 May 13

Con. 8328-13.

GS-5476

## (REVISED COURSE)

		(3 Hours) [ lotal Warks : 100	130 78
V.B.	(3	1) Question No. 1 is compulsory. 2) Attempt any four questions out of remaining six questions. 3) Figures to the right indicate full marks. 4) Use ligible hand writing	A Road St.
1.	(a) (b)	How is medical diathermy different from surgical diathermy? What are Lasers? Mention four majour differences between Laser and Incandescent light.	5
	(c) (d)	What do you understand by Circus Motion theory? What do you understand by Interferential therapy?	5 5
2.	(a) (b)	What is a Nerve Muscle Stimulator? Explain with the help of a neat block diagram. Explain the various low frequency currents, its waveform, values and its applications in therapy.	8 12
3.	(a)	With the help of a neat block diagram, explain the working of a Hemodialysis machine.	8
	(c)	With the help of a neat circuit diagram, explain the blood leak detector circuit. How is peritonial dialysis different from hemodialysis?	8
4.	(a) (b)	What do you understand by D. C. Defibrillators? Explain the various types of D. C. Defibrillators with adequate circuit diagram and waveforms. Explain the concept of Cardioversion with the help of a neat block diagram.	10 10
5.	(a) (b)	Mention the technical specifications of an internal pacemaker.  With the help of a neat block diagram, explain the working of an external	4
	(c)	pacemaker. How is Asynchronous Pacemaker different from Synchronous Pacemaker? Explain using block diagram.	8
6.	(a) (b)	Explain the principle of Surgical Diathermy.  What are the modes in ESU? With the help of a neat circuit diagram, explain any one mode selection in ESU.	4 10
	(c)	Explain in detail an ESU Analyser.	6
7.	(	te short notes on any four :-  (a) Nd-Yag Lasers  (b) Factors that affect Heart Rate Variability  (c) Role of Anticoagulant in Dialysis machine  (d) Types of Arrythmias  (e) IR and UV Lamps.	20