Register No : _____

THE KAVERY ENGINEERING COLLEGE

(An Autonomous Institution)

UG/PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2026

Sixth Semester

Biomedical Engineering

CBM368- THERAPEUTIC EQUIPMENT

Regulations - 2021

Duration : 3 Hrs ***Maximum : 100 Marks***

PART – A(ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	*Questions*	*BTL*	*CO*	*Marks*
1.	State the difference between Internal and external pacemaker.	L2	1	2
2.	What is nebulizer?	L2	1	2
3.	Define Electro diagnosis.	L2	2	2
4.	Write the principle of Interferential Therapy	L2	2	2
5.	Define vacuum therapy.	L2	3	2
6.	What is the primary use of a treadmill in physiotherapy and rehabilitation?	L1	3	2
7.	Give the significance of dental chair position.	L1	4	2
8.	Mention two main components of dental compressor.	L1	4	2
9.	Write the applications of He-Ne laser.	L1	5	2
10.	Define Lithotripsy.	L2	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No			*Questions*	*BLT*	*CO*	*Marks*
11.	a	i	Explain in detail about the application of Cardiac ablation Catheter.	L3	1	8
		ii	Write short notes on programmable pacemaker.	L3	1	8
			Or			
	b		Discuss in detail about different types of ventilator and its application with neat sketch.	L3	1	16
12.	a	i	Explain the working of peripheral nerve Stimulator with neat sketch.	L4	2	8
		ii	Write the application of ultrasonic stimulator and explain its function.	L4	2	8
			Or			
	b		Develop the mechanism by which lumbar traction machines alleviate pressure on the spine and intervertebral disc.	L4	2	16
13.	a	i	Explain in detail about ultrasonic spot removal.	L2	3	8
		ii	Discuss the concept skin tightening.	L2	3	8
			Or			
	b	i	Define deep heat therapy. Explain the process of this procedure in detail.	L2	3	8
		ii	Explain in detail about laser hair therapy machine.	L2	3	8
14.	a		Explain about oral evacuation system in detail	L4	4	16
			Or			
	b		Describe in detail about dental x-ray machine	L4	4	16
15.	a		Compare and contrast shortwave diathermy, microwave diathermy and ultrasound diathermy.	L4	5	16
			Or			
	b		Classify different types of Laser used in therapy and Describe in detail about Nd-YAG laser and CO2 laser.	L4	5	16