



VIT

Vellore Institute of Technology
OF ELECTE

SCHOOL OF ELECTRONICS ENGINEERING
CONTINUOUS ASSESSMENT TEST - I
WINTER SEMESTER 2024-2025

REG. NO. 7-020-0000

SLOT:F1+TF1

Programme Name & Branch	: B.TECH- BML	SLOT: F1+TF1
Course Code and Course Name	: BBMD201L - Biomedical Instrumentation and Measurements - II	
Faculty Name(s)	: Dr.Sivakumar R	
Class Number(s)	: VL2024250500756	
Date of Examination	: 01.02.2025	
Exam Duration	: 90 minutes	
General instruction(s)		

Maximum Marks: 50

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- Answer All Questions
 - M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
 - Course Outcomes
- CO1- To assess the functioning of cardiac pacemakers and defibrillators to distinguish the different levels of equipment used in operation theatres
- CO3 - To inspect and interpret the functioning of therapeutic and surgical equipment

Q. No	Question	M	CO	BL
1.	An individual experiences persistent and irregular dysfunction of the sinoatrial node, resulting in a slow heart rate. To manage this condition effectively, choose a pacemaker system that provides continuous support	10	1	3
2.	An individual is admitted to the hospital with irregular heartbeats and the doctor identifies a life-threatening rapid heartbeat as the cause. Suggest a suitable biomedical instrument system that can offer continuous support to manage this condition	10	1	3
3.	Demonstrate the differences between mono-polar and bipolar techniques in electro-surgery. Compare and contrast cutting, fulguration, coagulation, and desiccation in medical applications.	10	1	3
4.	A patient presents with unwanted facial hair. Recommend a non-invasive medical device suitable for aiding a physician in achieving safe and effective hair removal.	10	3	3
5.	A patient experiencing significant right shoulder pain has been admitted. Recommend suitable physiotherapy equipment that can be used by the therapist to alleviate the discomfort without resorting to invasive procedures.	10	3	3