

Reg.No.:

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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
 [AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
 Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 120024

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – JAN. 2026
 Sixth Semester
 Biomedical Engineering
 U19BM613 – DIAGNOSTIC AND THERAPEUTIC EQUIPMENT - I
 (Regulation 2019)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	Name any two abnormalities of ECG.	2	K1	CO1
2.	Identify the segment of an ECG associated with the time between ventricular depolarization and repolarization.	2	K3	CO1
3.	What is the significance of alpha wave in EEG?	2	K1	CO2
4.	Compare Visual and Auditory evoked potential.	2	K2	CO2
5.	Name the type of electrodes used in EMG recording.	2	K1	CO3
6.	Interpret the significance of GAIT analysis.	2	K2	CO3
7.	What is Tidal Volume?	2	K1	CO4
8.	Classify the different types of Ventilators.	2	K2	CO4
9.	List out the methods of Audiometer. Give their significance.	2	K1	CO5
10.	Mention the different types of Psychophysiological Measurements.	2	K2	CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Explain in detail about various heart diseases and their diagnosis using ECG with necessary illustration.	13	K2	CO1

