

PAPER-III
**SUNJECT CODE & NAME-801510-MEDICAL ELECTRONICS, BIOPHYSICS AND
COMPUTER USAGE RELEVANT TO CARDIAC TECHNOLOGY AND BASIC
ELECTROCARDIOGRAPHY**
**UNIT -III –TOPIC- THE NORMAL ELECTROCARDIOGRAM ATRIAL ACTIVATION
THE NORMAL P WAVE ATRIAL REPOLARIZATION ATRIOVENTRICULAR NODE
CONDUCTION AND THE PR SEGMENT VENTRICULAR ACTIVATION AND THE QRS
COMPLEX VENTRICULAR RECOVERY AND ST-T WAVE U WAVE NORMAL
VARIANTS RATE AND RHYTHM**

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S. No.	Question/Topic	Month & Year	Bloom's Taxonomy Level
1	Explain ECG Lead system.		
2	Explain in detail the ECG lead system.	Aug 2018	Analyze
3	Discuss on 12 lead ECG system.	Feb 2019	Analyze

5 marks

S. No.	Question/Topic	Month & Year	Bloom's Taxonomy Level
1	Draw normal ECG waveform by mentioning segments, interval and time duration of each wave.	Aug 2017	Apply/Understand
2	Normal P wave.	Feb 2017, Aug 2018	Understand
3	What are ionic currents and discuss on the phases of cardiac action potential?	Feb 2019	Understand
4	Phases of cardiac action potential.	Feb 2020	Understand
5	How to calculate heart rate in sinus rhythm and atrial fibrillation?	Aug 2019	Apply
6	What are the various cardiac and non cardiac factors influencing ECG	Feb 2020	Understand

	recording? (Relates to Normal Variants)		
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3 marks

S. No.	Question/Topic	Month & Year	Bloom's Taxonomy Level
1	Write notes on Depolarization and Re polarization.	Aug 2015	Understand
2	What is Depolarization and Repolarisation?	Feb 2018	Remember/Understand
3	Depolarisation and repolarization.	Aug 2018	Understand
4	Write about Action Potential / What is action potential? / Action potentials.	Aug 2015, Feb 2016, Aug 2016, Aug 2018	Remember
5	What are the leads showing P-wave well? What is the normal duration of P-Wave?	Feb 2016	Remember
6	What are the characteristics of normal P Wave?	Aug 2017	Remember
7	Electrode used to detect P wave and the time duration of P-wave.	Aug 2018	Remember
8	U wave.	Aug 2019	Remember
9	Factors determining the amplitude of QRS complex.	Aug 2019	Understand
10	How do you calculate PR interval?	Aug 2019	Apply
11	Calibration check in ECG Calibration check in electrocardiography.	Aug 2019, Feb 2020	Remember
12	ECG waveform.	Feb 2020	Remember
13	ECG pattern in atrial fibrillation. (Relates to Rhythm)	Feb 2020	Remember/Understand
14	Calculate the Heart rate for the given Parameter.	Aug 2015, Feb 2016, Aug 2016, Feb 2017, Feb 2019, Aug 2018, Feb 2020	Apply