BYJU'S The Learning App

MCQs on ECG for NEET

ECG or electrocardiography is a tool to assess, evaluate and diagnose the muscular and electrical functionalities of the heart. Here, the electrodes are placed on the skin to note the normal working conditions of the heart. These are electrodes which detect the tiniest bit of change in the electrical pathway arising from the heart muscles in the electrophysiologic patterns of the depolarizing in every heartbeat.

1. ECG (Electrocardiogram) was developed first by

- (a) Wilhelm His
- (b) Steward
- (c) Hubert Mann
- (d) Willem Einthoven

Answer: (d)

2. This is the classic ECG change in MI (myocardial infarction)

- (a) ST-segment elevation
- (b) T-wave inversion
- (c) Development of an abnormal Q wave
- (d) All of these

Answer: (d)

3. In which of these conditions can widen QRS and Tall-tented T waves be observed?

- (a) Hyponatremia
- (b) Hyperkalemia
- (c) Hyperglycemia
- (d) Hyperphosphatemia

Answer: (b)

4. A particular ECG change observed in Hypokalemia is

- (a) ST segment elevation
- (b) U wave (a position deflection after the T wave)
- (c) Tall peaked T waves
- (d) Widening of the QRS complex and increased amplitude

Answer: (b)

5. ECG report must consist of the following information

- (a) Rhythm, cardiac axis
- (b) Conduction intervals
- (c) Description of the ST segments, QRS complexes, T-waves
- (d) All of these

Answer: (d)

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6. For the normal heartbeat, depolarization stimulus originates in

- (a) His-bundle areas
- (b) Epicardium
- (c) Sinoatrial (SA)node
- (d) Atrioventricular (AV) node

Answer: (c)

7. The characteristics – slurring of the initial QRS deflection, shortened PR interval, and prolonged QRS duration are of this condition

- (a) Atrial tachycardia
- (b) Left bundle branch block
- (c) WPW (Wolff-Parkinson-White) syndrome
- (d) Myocardial ischemia

Answer: (c)

8. P wave indicates

- (a) Depolarization of right ventricle
- (b) Depolarization of left ventricle
- (c) Depolarization of both atria
- (d) Atria to ventricular conduction time

Answer: (c)

9. Ventricular muscle depolarization is indicated by

- (a) PR interval
- (b) P wave
- (c) U wave
- (d) The QRS complex

Answer: (d)

10. ECG identified by the PR interval tends to become longer with every succeeding ECG complex until there is a P wave not followed by a QRS is observed in

- (a) Third-Degree Atrioventricular Block
- (B) Second-Degree Atrioventricular Block, Type II
- (C) Second-Degree Atrioventricular Block, Type I
- (D) First-Degree Atrioventricular Block, Type II

Answer: (c)