Yakeen NEET 2.0 2026

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Body Fluids and Circulation

DPP: 6

Q1 Read the following statements carefully and choose the **correct** statement.

(A) During the joint diastole, bicuspid and tricuspid valve remains closed.

(B) Valves in the heart allows the flow of blood only in one direction i.e., from the ventricles to the atria.

(C) Each peak in the ECG is identified with a letter from P to T that corresponds to a specific neural activity of the heart.

(D) Duration of cardiac cycle is 0.8 seconds.

Q2 P-wave of ECG represents;

(A) onset of ventricular contraction.

(B) end of atrial contraction.

(C) beginning of atrial contraction.

(D) ventricular contraction.

Q3 To obtain a standard ECG, the patient is connected to the machine with three electrical leads. These three electrical lead are connected as one to each;

(A) biceps and third one at the ankle.

(B) triceps and third one at the ankle.

(C) thigh and third one at the ankle.

(D) wrist and third one at the ankle.

Q4 Match List I with List II :

List I	List II
A. P wave	I. Heart muscles are electrically silent.
B. QRS complex	II. Depolarisation of ventricles.
C. T wave	III.Depolarisation of atria.
D. T-P gap	IV. Repolarisation of ventricles.

Choose the correct answer from the options given below:

(A) A-IV, B-II, C-I, D-III

(B) A-I, B-III, C-IV, D-II

(C) A-III, B-II, C-IV, D-I

(D) A-II, B-III, C-I, D-IV

Q5 Match **List-I** with **List-II**:

	List-I		**List-II**
(A)	Depolarisation of the atria	(I)	QRS complex
(B)	Repolarisation of the ventricles	(II)	P-wave
(C)	Depolarisation of the ventricles	(III)	T-wave
(D)	Three electrical leads	(IV)	One to each wrist and to the left ankle

Choose the **correct** answer from the options given below:

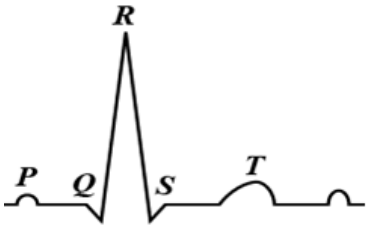
(A) I- (B) ,II- (A), III- (C), IV- (D)

(B) I- (B) ,II- (C), III- (A), IV- (D)

(C) I- (A) ,II- (B), III- (C), IV- (D)

(D) I- (D) ,II- (B), III- (C), IV- (A)

Q6 Given here is an ECG of a normal human. Which one of its components is **correctly** interpreted?



(A) QRS complex – one complete pulse
(B) Peak T– initiation of total cardiac contraction
(C) Peaks P and R – systole and diastole blood pressure
(D) Peak T–initiation of left atrial contraction only

Q7 **Statement-I:** ECG is a graphical representation of the electrical activity of the heart during a cardiac cycle.
Statement-II: In ECG, the end of the T-wave marks the start of systole.
(A) Both Statement I and Statement II are correct.
(B) Statement I is correct, but Statement II is incorrect.
(C) Statement I is incorrect, but Statement II is correct.
(D) Both Statement I and Statement II are incorrect.

Q8 The graphical representation of the electrical activity of the heart during a cardiac cycle is called:
(A) electrocardiogram.
(B) electrocardiograph.
(C) electroencephalograph.
(D) Both (A) and (B)

Q9 The recording (ECG) of the heart activity is taken by the machine;
(A) electrocardiogram.
(B) electrocardiograph.
(C) electroencephalograph.
(D) Both (A) and (B)

Q10 QRS complex in a standard ECG represents;
(A) depolarisation of auricles.
(B) depolarisation of ventricles.
(C) repolarisation of ventricles.
(D) repolarisation of auricles.

Q11 Read the following statements.
Assertion (A): The T-wave represents the return of the ventricles from excited to normal state.
Reason (R): The contraction starts shortly after Q and marks the beginning of the systole, whereas the end of the T-wave marks the end of systole.
Mark the correct choice as:
(A) If both Assertion (A) and Reason (R) are true and the Reason (R) is a correct explanation of the Assertion (A).
(B) If both Assertion (A) and Reason (R) are true but Reason (R) is not a correct explanation of the Assertion (A).
(C) If Assertion (A) is true but the Reason (R) is false.
(D) If Assertion (A) is false but the Reason (R) is true.

Q12 Which of the following **correctly** explains a phase/event in cardiac cycle in a standard electrocardiogram?
(A) QRS complex indicates atrial contraction.
(B) QRS complex indicates ventricular contraction.
(C) Time between S and T represents atrial systole.
(D) P-wave indicates beginning of ventricular contraction.

Q13 Choose the option which have all correctly matched sets.

(a)	Heart	Mesodermally derived organ
(b)	Sino-atrial node	right upper corner of the right atrium
(c)	Pericardium	Walls of arteries and veins
(d)	QRS complex	Contraction of atria

(A) a, c
(B) a, b
(C) b, d
(D) c, d

Q14 In the ventricular diastole, the ___A___ valve closes. This causes the second heart sound ___B___.
Choose the **correct** option for A and B.
(A) A—semilunar, B—dub
(B) A—mitral; B—dub
(C) A—bicuspid; B—dub
(D) A—tricuspid; B—dub

Answer Key

Q1	(D)
Q2	(C)
Q3	(D)
Q4	(C)
Q5	(B)
Q6	(A)
Q7	(B)
Q8	(A)
Q9	(B)
Q10	(B)
Q11	(B)
Q12	(B)
Q13	(B)
Q14	(A)