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NEET BODY FLUIDS AND CIRCULATION — CIRCULATORY PATHWAYS, HUMAN HEART — PYQS

Max. Marks: 44 **Questions:** 11

Section A (MCQ) — 11 questions

Q.1 The opening between the right atrium and the right ventricle is guarded by _____. [RE-NEET (UG) 2026]

(1) sino-atrial node (2) bicuspid valve
(3) tricuspid valve (4) semilunar valve

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Q.2 Following are the stages of pathway for conduction of an action potential through the heart

A. AV bundle B. Purkinje fibres
C. AV node D. Bundle branches
E. SA node

Choose the correct sequence of pathway from the options given below [NEET (UG) 2024]

(1) E-C-A-D-B (2) A-E-C-B-D
(3) B-D-E-C-A (4) E-A-D-B-C

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Q.3 Match the items given in **column I** with those in **column II** and select the correct option given below. [NEET 2018]

Column I		Column II	
a.	Tricuspid valve	i.	Between left atrium and left ventricle
b.	Bicuspid valve	ii.	Between right ventricle and pulmonary artery
c.	Semilunar valve	iii.	Between right atrium and right ventricle

(1) (a)-(i), (b)-(ii), (c)-(iii)
(2) (a)-(iii), (b)-(i), (c)-(ii)
(3) (a)-(i), (b)-(iii), (c)-(ii)
(4) (a)-(ii), (b)-(i), (c)-(iii)

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Q.4 'Bundle of His' is a part of which one of the following organs in humans? [AIPMT 2011 (Prelims)]

(1) Brain (2) Heart (3) Kidney (4) Pancreas

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Q.5 Fastest distribution of some injectable material/medicine and with no risk of any kind can be achieved by injecting it into the [AIPMT 2010 (Mains)]

(1) muscles (2) arteries
(3) veins (4) lymph vessels

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Q.6 If due to some injury the chordae tendineae of the tricuspid valve of the human heart is partially non-functional, what will be the immediate effect? [AIPMT 2010 (Prelims)]

(1) The flow of blood into the aorta will be slowed down
(2) The 'pacemaker' will stop working
(3) The blood will tend to flow back into the left atrium
(4) The flow of blood into the pulmonary artery will be reduced

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Q.7 The cardiac pacemaker in a patient fails to function normally. The doctors find that an artificial pacemaker is to be grafted in him. It is likely that it will be grafted at the site of [AIPMT 2003]

(1) atrioventricular bundle
(2) Purkinje system
(3) sino-atrial node
(4) atrioventricular node.

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Q.8 Bundle of His is a network of [AIPMT 2003]

(1) muscle fibres distributed throughout the heart walls
(2) muscle fibres found only in the ventricle wall
(3) nerve fibres distributed in ventricles
(4) nerve fibres found throughout the heart.

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Q.9 Impulse of heart beat originates from [AIPMT 2002]
(1) SA node (2) AV node
(3) vagus nerve (4) cardiac nerve

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Q.10 Difference between pulmonary artery and pulmonary vein is that, the pulmonary artery has [AIPMT 2000]
(1) no endothelium (2) valves
(3) thicker walls (4) oxygenated blood

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Q.11 In which point, pulmonary artery is different from pulmonary vein? [AIPMT 2000]
(1) Its lumen is broad
(2) Its wall is thick
(3) It has valves
(4) It does not possess endothelium

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	3	1	2	2	3	4	3	2	1	3	2