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NEET BODY FLUIDS AND CIRCULATION — CARDIAC CYCLE AND CARDIAC OUTPUT — PYQS

Max. Marks: 28 **Questions:** 7

Section A (MCQ) — 7 questions

Q.1 The number of action potentials generated by sino-atrial node (SAN) in a healthy human is _____ per minute. [RE-NEET (UG) 2026]

(1) 120–140 (2) 28–30

(3) 70–75 (4) 100–110

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Q.2 'Lub' sound of Heart is caused by the _____. [RE-NEET (UG) 2024]

(1) closure of the semilunar valves

(2) opening of tricuspid and bicuspid valves

(3) opening of the semilunar valves

(4) closure of the tricuspid and bicuspid valves

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Q.3 Which one of the following statements is correct? [NEET (UG) 2022]

(1) The atrio-ventricular node (AVN) generates an action potential to stimulate atrial contraction

(2) The tricuspid and the bicuspid valves open due to the pressure exerted by the simultaneous contraction of the atria

(3) Blood moves freely from atrium to the ventricle during joint diastole.

(4) Increased ventricular pressure causes closing of the semilunar valves.

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Q.4 What would be the heart rate of a person if the cardiac output is 5 L, blood volume in the ventricles at the end of diastole is 100 mL and at the end of ventricular systole is 50 mL? [NEET (UG) 2019]

(1) 100 beats per minute (2) 125 beats per minute

(3) 50 beats per minute (4) 75 beats per minute

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Q.5 Doctors use stethoscope to hear the sounds produced during each cardiac cycle. The second sound is heard when [AIPMT 2015]

(1) AV node receives signal from SA node

(2) AV valves open up

(3) Ventricular walls vibrate due to gushing in of blood from atria

(4) Semilunar valves close down after the blood flows into vessels from ventricles.

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Q.6 Blood pressure in the mammalian aorta is maximum during [AIPMT 2015 (Cancelled)]

(1) systole of the left ventricle

(2) diastole of the right atrium

(3) systole of the left atrium

(4) diastole of the right ventricle.

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Q.7 In humans, blood passes from the post caval to the diastolic right atrium of heart due to [AIPMT 2008]

(1) stimulation of the sino auricular node

(2) pressure difference between the post caval and atrium

(3) pushing open of the venous valves

(4) suction pull

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ANSWER KEY

Ques.	1	2	3	4	5	6	7				
Ans.	3	4	3	1	4	1	2				