Version No.				
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ROLL NUMBER						

CARDIOVASCULAR TECHNOLOGY-I HSSC-I

Curriculum 2022-23

SECTION – A (Marks 08)

Time allowed: 15 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed.

Do not use lead pencil.

حصّہ اوّل لازمی ہے۔ اس کے جوابات اسی صفحہ پر دے کر ناظم مرکزکےحوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔*لیڈ پنسل کا استعمال ممنوع ہے۔*

Answer Sheet No. _____ Candidate's Sign. _____ Invigilator's Sign. _____

Fill the relevant bubble against each question:

S #	Question	A	B	C	D	A	B	C	D
1.	Which one is the pace-maker of heart:	Purkinje Fibres	Alrioventricular Node	Sino Atrial Node	Bundle Branches	○	○	○	○
2.	The other name of Mitral valve is	Aortic Valve	Bicuspid Valve	Tricuspid Valve	Pulmonic Valve	○	○	○	○
3.	The normal heart rate of human body ranges:	80 to 100 bpm	60-100 bpm	50-60 bpm	100-110 bpm	○	○	○	○
4.	The Atrial Systole in one Cardiac Cycle is for only:	0.5 sec	0.1 sec	0.7 sec	0.12 sec	○	○	○	○
5.	Which of these blood vessels carry Oxygenated blood from lungs to heart?	Carotid Veins	Pulmonary Veins	Pulmonary Artery	Coronary Veins	○	○	○	○
6.	The normal Cardiac output per minute is:	10 litres/min	5 litres/min	9 litres/min	2 litres/min	○	○	○	○
7.	Which of the following indicates repolarization of Artias in ECG?	P-Waves	QRS Complex	ST Segment	T-Waves	○	○	○	○
8.	Classic ECG changes in Myocardial Infarction in (MI)	ST Segment Elevation	T-Wave Inversion	Absence of P-Wave	U-Waves	○	○	○	○

CARDIOVASCULAR TECHNOLOGY-I
HSSC-I

Time allowed: 2:15 Hours | Total Marks Sections B and C :32

Note: Answer all parts from Section "B" and all questions from Section 'C' on the provided Sheet**.** Write your answers on the allotted/given spaces.

SECTION – B (Marks 20)

Q. 2	**Attempt the following questions.**				**(10 × 2 = 20)**
(i)	Write down the names of Chambers of Heart.	2	**OR**	Briefly describe the difference between First Heart and Second Heart sound.	2
(ii)	What is the Anatomical Position of Heart?	2	**OR**	What is Cardiac Out put, how is it measured?	2
(iii)	What do you mean by Sinus Rhythm in ECG?	2	**OR**	Enlist the parts of Aorta.	2
(iv)	What is Blood Pressure, write its normal value.	2	**OR**	What is the difference between Afterload and Preload?	2
(v)	What is Conducting System of heart, name its components.	2	**OR**	What do you know about QRS complex in ECG?	2
(vi)	What is Tachycardia and Bradycardia?	2	**OR**	Discuss Frank Starling law?	2
(vii)	What do you mean by Venous Return?	2	**OR**	Name the Layers of Heart.	2
(viii)	What is the role of Papillary Muscles in the function of heart pumps?	2	**OR**	Which side of the heart pumps oxygenated blood to the human body?	2
(ix)	What is Apex beat?	2	**OR**	What is Pulse? Write its types	2
(x)	Write down the position of A.V node in heart.	2	**OR**	Name the Artery supplying blood to the Heart.	2

SECTION -C (Marks 12)

Note: **Attempt all questions. Marks of each question are given along with each question. (6 × 2 =12)**

Q. 3	What is Cardiac Cycle, Discuss its phases in detail?	6	**OR**	Discuss the Blood circulation through the Heart in detail.	6
Q. 4	What ECG stands for, write the parts of ECG machine, position of its electrodes. Discuss ECG waves and its interpretations.	6	**OR**	What is Tilt Test, write down its methods, Preparations for patients and Indications.	6