

BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE)
B. Sc. (Cardiovascular Technology) Sem - III : WINTER :- 2021
SUBJECT: REVIEW OF ANATOMY & PHYSIOLOGY OF CARDIOVASCULAR SYSTEM

Day : Friday
Date 11/2/2022

W-23345-2021

Time : 10:00 AM-12:00 PM
Max. Marks: 60

N.B.

- 1) There are three sections as
Section – A = Objective Type questions - 20 marks.
Section – B = Long Answer questions - 20 marks.
Section – C = Short Answer questions - 20 marks.
- 2) Section A is given in **SEPARATE** sheet and has to be answered on same sheet. This sheet should be completed with the first 20 minutes of starting of the examination. This sheet with Section A only will be collected by Supervisor.
- 3) Section B has four long questions and **ANY TWO** questions have to be answered.
- 4) Section C has six short questions and **ANY FOUR** questions have to be answered.
- 5) You have to make \surd such kind of mark in the box of the appropriate answers.

Seat No. : _____

SECTION - A

M.C.Q's

(20)

1. Opening of aortic valves is initiated when:

- A. Ventricular pressure exceeds aortic pressure
- B. Ventricles contract
- C. Ventricles relax
- D. Aortic contracts

2. Essential hypertension is generally associated with an early increase in:

- A. Oxygen use
- B. Coronary flow
- C. Cardiac work
- D. Cardiac output

3. Parasympathetic stimulation of heart causes:

- A. Decreased rate of SA node
- B. Increased excitability of A V junctional fibers
- C. Prevents ventricular contraction
- D. None of the above

4. In man cardiac cycle duration (sec) is:

- A. 0.4
- B. 0.8
- C. 1
- D. 1.6

5. The law relating distending pressure and tension in a blood vessels wall is called:

- A. Frank Starling law
- B. Einthoven's law
- C. Law of Laplace
- D. Mary's law

6. Vascular distensibility is least for the following vascular segment:

- A. Pulmonary artery
- C. Systemic vein
- B. Systemic artery
- D. Pulmonary vein

7. Following are increased during exercise except:

- A. Cardiac output
- B. Venous return
- C. Coronary blood flow
- D. Peripheral vascular resistance

8. Blood pressure is not reliable in:

- A. Coarctation of aorta
- B. Pulmonary stenosis
- C. Atrial fibrillation
- D. Polyarteritis nodosa

9. After liver and kidneys, the blood flow is maximum in:

- A. Brain
- B. Skeletal muscle
- C. Skin
- D. Heart muscle

10. Heart receives about:

- A. 1% cardiac output
- B. 2% of cardiac output
- C. 5% cardiac output
- D. 10% cardiac output

Total marks obtained : _____

Signature of Invigilator : _____

Signature of Examiner : _____

**B.Sc. (CARDIOVASCULAR TECHNOLOGY) (CBCS 2020 COURSE) SEM-III : WINTER 2021
SUBJECT : REVIEW OF ANATOMY AND PHYSIOLOGY OF CARDIOVASCULAR SYSTEM**

Day :
Date :

Time :
Max. Marks : 40

N.B.

- 1) There are three sections as
Section – A = Objective Type questions - 20 marks.
Section – B = Long Answer questions - 20 marks.
Section – C = Short Answer questions - 20 marks.
 - 2) Section B has four long questions and **ANY TWO** questions have to be answered.
 - 3) Section C has six short questions and **ANY FOUR** questions have to be answered.
 - 4) Answer to both the sections should be written in **SAME** answer book.
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SECTION – B

Long answer (Attempt **ANY TWO**) **(20)**

- 1) Basic Cardiac life support & advanced Cardiac life support.
- 2) Discuss normal ECG.
- 3) Definition, pathophysiology, symptoms & management of Ischemic heart Disease.
- 4) Define Hypertension Enumerate Causes, diagnosis & management of Secondary Hypertension.

SECTION – C

Short answer (Attempt **ANY FOUR**) **(20)**

- 1) Classify congenital Heart Disease.
- 2) Risk factors of Atherosclerosis
- 3) Brady arrhythmia
- 4) Diagnosis of Pulmonary Hypertension.
- 5) How to calculate heart rate by ECG ?
- 6) Constrictive Pericarditis.
