

BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE)  
B. Sc. (Cardiovascular Technology) Sem - III : WINTER- 2022  
SUBJECT : REVIEW OF ANATOMY & PHYSIOLOGY OF CARDIOVASCULAR  
SYSTEM

Day : Monday

Time : 10:00 AM-12:00 PM

Date : 16-01-2023

W-23345-2022

Max. Marks : 20

**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) 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.
- 5) You have to make  such kind of mark in the box of the appropriate answers.

Seat No. : \_\_\_\_\_

**SECTION - A**

**M.C.Q's**

**(20)**

- 1 Posterior left ventricular branch is the branch of :
  - a)  Posterior descending artery
  - b)  Right coronary artery
  - c)  Obtuse marginal artery
  - d)  Septal artery
- 2 Common cause of primary systemic hypertension :
  - a)  Kidney disease
  - b)  Thyroid problem
  - c)  Salty diet
  - d)  None of the above
- 3 Which of the following lesion is not present in TOF ?
  - a)  Atrial septal defect
  - b)  Right ventricular hypertrophy
  - c)  Coarctation of aorta
  - d)  Ventricular septal defect
- 4 PDA (Patent ductus arteriosus) is connection between :
  - a)  SVC to pulmonary artery
  - b)  Both ventricle
  - c)  Subclavian artery to pulmonary artery
  - d)  Pulmonary artery to aorta

PTO

5 Which of the following is not contraindication of TMT ?

- a)  Severe LV systolic dysfunction
- b)  LMCA disease
- c)  Known MI
- d)  Severe AS

6 During TMT BP should increase by at least 10 ml of Hg except in patients with :

- a)  Pt. On Anti-thrombolytic therapy
- b)  Pt. With hypotension
- c)  Pt. With LV dysfunction
- d)  Pt. On Antihypertensive therapy

7 Which of the following is not TMT termination criteria?

- a)  MET < 6
- b)  Systolic BP drop > 10 mmHg
- c)  Systolic BP drop > 250 mmHg
- d)  Achieving 100% maximum HR

8 Causes of restrictive cardiomyopathy

- a)  Titin
- b)  Sarcoidosis
- c)  Saromere
- d)  None of the above

9 Depth of chest compression during CPR in adult should be

- a)  10 cm
- b)  5 cm
- c)  2.5 cm
- d)  > 5 cm

10 Ratio of chest compression and breathing airway during CPR is

- a)  1:2
- b)  2:1
- c)  2:3
- d)  3:2

Total marks obtained : \_\_\_\_\_

Signature of Invigilator : \_\_\_\_\_

Signature of Examiner : \_\_\_\_\_

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Max. Marks : 40

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  - 4) Answer to both the sections should be written in **SAME** answer book.
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**SECTION – B**

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

- 1) Discuss protocol, indications and contraindications of TMT.
- 2) Define myocardial infarction. Discuss symptoms, investigations and treatment.
- 3) Classify Hypertension. Discuss causes, symptoms and treatment.

**SECTION – C**

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

- 1) Discuss Cardiac tamponed.
- 2) Discuss Atherosclerosis.
- 3) Classify cardiomyopathy. Discuss D.C.M.
- 4) Symptoms and treatment of congestive heart failure.
- 5) Write myocarditis.
- 6) Define and discuss Raynaud's disease.

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