

**POST GRADUATE DIPLOMA IN NON-INVASIVE CARDIOLOGY : SUMMER 2022**  
**SUBJECT : PAPER – I : HUMAN BIOLOGY AND INTRODUCTION TO CARDIOLOGY**

Day : Tuesday  
Date : 2/8/2022

**S-23501-2022**

Time : 10:00 AM-12:00 PM  
Max. Marks : 50

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 2) Answer to both the sections should be written in **SAME** answer book.
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**SECTION – A**

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

- 1) Describe pulmonary hypertension. Write its causes and treatment. Also write echo cardiographic features of pulmonary hypertension.
- 2) Define mitral valve stenosis. Write its causes, symptoms and treatment. Draw diagram of normal and stenotic mitral valve.
- 3) What is cardiac arrhythmia? Write any two examples. Write any one antiarrhythmic drug with its indication and contraindications.

**SECTION – B**

Short answer (Attempt **ANY FIVE**) **(30)**

- 1) Define Rheumatic fever. Write causes and treatment.
- 2) Write note on LV systolic dysfunction and its echo features.
- 3) Define HCM and HOCM. Write note on echo features of HCM and HOCM.
- 4) Write difference between continuous wave of pulsed wave doppler.
- 5) Define congenital heart disease. Write its types. Define any two types with diagram.
- 6) What is acute pulmonary thromboembolism? Write echocardiographic assessment.
- 7) Define mitral regurgitation. Write causes, symptoms. How to measure the severity of MR.
- 8) Define Ventricular Septal Defect (VSD). Write its types with labelled diagram.

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