

# Question Paper

Exam Date & Time: 26-Jul-2022 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. CARDIO VASCULAR TECHNOLOGY DEGREE EXAMINATION - JULY 2022  
SUBJECT: CVT1101 - CARDIAC ANATOMY AND PHYSIOLOGY  
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- |     |   |      |
|-----|---|------|
| 1)  | Explain the anatomy of peripheral artery and its branches.                    | (10) |
| 2)  | Describe anatomical variances of left ventricle with a neat labelled diagram. | (10) |
| 3A) | Mention various techniques in palpation of pulse.                             | (5)  |
| 3B) | Write the anatomical features of bundle branches.                             | (5)  |
| 3C) | Explain the phases of Korotkoff sounds.                                       | (5)  |
| 3D) | Explain coronary artery dominance.  | (5)  |
| 4A) | Define pulsus parvus et tardus. Give one example.                             | (2)  |
| 4B) | Name the valve present in coronary sinus and Inferior venacava.               | (2)  |
| 4C) | Define suffix in medical terminology.   | (2)  |
| 4D) | Mention four causes of continuous murmur.                                     | (2)  |
| 4E) | Define pulsus deficit.  | (2)  |

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# Question Paper

Exam Date & Time: 28-Jul-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - JULY 2022  
SUBJECT: CVT1102 - BASIC ECG  
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- |     |   |      |
|-----|---|------|
| 1)  | Define the two types of Left ventricular hypertrophy and explain the ECG criteria | (20) |
| 2)  | Define PR interval and explain the ECG criteria of Atrioventricular block         | (20) |
| 3)  | Explain the different phases of myocardial infarction                             | (10) |
| 4)  | Explain the action potential curve in ventricular muscle cell                     | (10) |
| 5A) | Describe the ECG criteria for hemiblocks  | (5)  |
| 5B) | Explain the ECG features of Complete heart block                                  | (5)  |
| 5C) | Describe the ECG criteria for left atrial enlargement                             | (5)  |
| 5D) | Explain the ECG features of Complete and incomplete RBBB                          | (5)  |
| 5E) | Explain the lead placement system in chest leads                                  | (5)  |
| 5F) | Describe the methods to calculate heart rate                                      | (5)  |
| 6A) | Mention one ECG criteria differentiating between True and technical dextrocardia  | (2)  |
| 6B) | What is standardization?  | (2)  |
| 6C) | What is subendocardial infarction?  | (2)  |
| 6D) | Write two causes for right atrial enlargement                                     | (2)  |
| 6E) | Define J point  | (2)  |

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