

Question Paper

Exam Date & Time: 13-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BCVT 101 - CARDIAC ANATOMY AND PHYSIOLOGY
(2016 RV SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain in detail the anatomy and morphology of left ventricle with a neat labelled diagram. (10)
- 2) Write a note on types of abnormal pulses with examples for each. (10)
- 3A) Write a note on Sino atrial node and atrioventricular node. (5)
- 3B) Write a note on Right coronary artery anatomy in detail. (5)
- 3C) Explain Systolic Phases of cardiac Cycle. (5)
- 3D) Write a note on the components of aortic valve. (5)
- 4A) Define Stroke volume and cardiac output. (2)
- 4B) Write two morphological features of LA appendage. (2)
- 4C) Name the branches of coronary venous system. (2)
- 4D) Define S3 and S4 heart sounds. (2)
- 4E) Give four examples for combining vowels. (2)

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Question Paper

Exam Date & Time: 14-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2020 SUBJECT: BCVT 103 - BASIC ECG
(2016 RV SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain in detail the phases of Myocardial Infarction in ECG. (10)
- 2) Discuss the ECG findings of left ventricular hypertrophy in detail. (10)
- 3A) Briefly describe types of AV block. (5)
- 3B) Discuss the difference between True and Technical Dextrocardia. (5)
- 3C) Write the ECG findings in fascicular blocks. (5)
- 3D) Briefly explain cardiac conduction system. (5)
- 4A) Mention four causes of RV volume overload. (2)
- 4B) Give two ECG features of Pericarditis. (2)
- 4C) Define Morri's index. (2)
- 4D) Give the formula for calculating Heart Rate for irregular rhythm. (2)
- 4E) What is standardization? (2)

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