

Question Paper

Exam Date & Time: 04-Dec-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019

SUBJECT: BCVT 101 - CARDIAC ANATOMY AND PHYSIOLOGY

(2016 RV SCHEME)

Wednesday, December 04, 2019 (14.00 - 16.00)

Answer all the questions.

Draw the diagram wherever necessary.

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Describe the conduction system of the heart in detail. (10)
- 2) Explain the ultrastructure of myocardium. (10)
- 3) **Answer the following questions:**
 - 3A) Write a brief note on systemic circulation with a flow chart. (5)
 - 3B) Briefly explain Aortic valve. (5)
 - 3C) Explain diastolic heart sounds and its abnormal condition. (5)
 - 3D) Write a short note on pericardium. (5)
- 4) **Answer the following questions in brief:**
 - 4A) What is bisferent pulse? Give two examples. (2)
 - 4B) Location of cardiac apex. Give two examples of abnormal apex. (2)
 - 4C) Mention the diastolic phases of ventricle with timings. (2)
 - 4D) Explain the medical terms : cardiomegaly, Angina (2)
 - 4E) Describe mean arterial pressure. Give the normal value. (2)

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Question Paper

Exam Date & Time: 05-Dec-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019 SUBJECT: BCVT 103 - BASIC ECG
(2016 RV SCHEME)

Thursday, December 05, 2019 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Draw the diagram wherever necessary.

- 1) Explain ECG criteria for LVH. (10)
- 2) Describe the conduction system of the heart in detail. (10)
- 3A) Explain various methods to assess Heart rate. (5)
- 3B) Explain LBBB briefly. Mention two causes. (5)
- 3C) Write a short note on pacemaker cell action potential. (5)
- 3D) Enumerate the ECG criteria's for RBBB with LAHB. Explain tri fascicular block. (5)
- 4A) What are the methods to assess HR in irregular rhythm? (2)
- 4B) Define Katz-Wachtel phenomenon. (2)
- 4C) Enumerate ECG findings in atrial MI. (2)
- 4D) Explain ECG findings in LPHB. (2)
- 4E) Explain ECG criteria's for Bi- atrial enlargement. (2)

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