

Question Paper

Exam Date & Time: 19-Feb-2020 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BCVT 301 - BASICS IN CARDIAC CATH AND HARDWARES
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- | | | |
|-----|---|------|
| 1) | Explain the cinefluoroangiographic system with a neat labelled diagram. | (10) |
| 2) | Describe the types of contrast media used in cardiac catheterization and its complications. | (10) |
| 3A) | Write a note on IVC filter. | (5) |
| 3B) | Discuss the cardiac output measurements by thermo dilution method. | (5) |
| 3C) | Briefly write a note on femoral approach. | (5) |
| 3D) | Explain the balloon characteristics in detail. | (5) |
| 4A) | Unipolar pacing leads. | (2) |
| 4B) | Name the types of balloon flotation catheters. | (2) |
| 4C) | Draw Right atrial pressure wave form with labelling. | (2) |
| 4D) | Write two indications for ICD. | (2) |
| 4E) | Define antigens and antiseptic. | (2) |

-----End-----

Question Paper

Exam Date & Time: 21-Feb-2020 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BCVT 305 - CONGENITAL HEART DISEASES - II
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- | | | |
|-----|---|------|
| 1) | Describe classification, Pathophysiology and Diagnostic modalities of DORV. | (20) |
| 2) | Explain segmental approach to congenital heart disease in detail. | (20) |
| 3) | Describe classification and Echo findings in Tricuspid Atresia. | (10) |
| 4) | Explain pathophysiology, Clinical presentation of Co-arctation of aorta. | (10) |
| 5A) | Explain diagnosis of pulmonary A V fistula in brief. | (5) |
| 5B) | Describe Echo findings of TOF with pulmonary atresia. | (5) |
| 5C) | Describe the classification of RSOV. | (5) |
| 5D) | Describe Glenn shunt in detail. | (5) |
| 5E) | Explain the management of CcTGA. | (5) |
| 5F) | Explain echo findings of TGA. | (5) |
| 6A) | Define straddling. | (2) |
| 6B) | Define cyanosis. | (2) |
| 6C) | Write the Xray findings in left atrial enlargement. | (2) |
| 6D) | Define ectopia cordis. | (2) |
| 6E) | Define R V dependent coronary circulation. | (2) |

-----End-----

Question Paper

Exam Date & Time: 22-Feb-2020 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. CARDIOVASCULAR TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2020
SUBJECT: BCVT 303 - MYOCARDIAL, PERICARDIAL AORTIC AND ISCHEMIC HEART DISEASES
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- | | | |
|-----|---|------|
| 1A) | Explain various method of assessment of LV systolic function. | (20) |
| 1B) | Explain etiology, various types, clinical finding, and diagnosis of dilated cardiomyopathy. | (20) |
| 2A) | Write a short note on LV non compaction. | (10) |
| 2B) | Explain Precipitating factors of unstable angina. | (10) |
| 3A) | Write various Contraindication for fibrinolysis in ACS. | (5) |
| 3B) | Write a short note on Initial management in emergency department for ACS. | (5) |
| 3C) | Write Short note on LV aneurysm. | (5) |
| 3D) | Explain role of color m- mode in assessing diastolic dysfunction. | (5) |
| 3E) | Describe Non-invasive testing of unstable angina. | (5) |
| 3F) | Explain assessment of LV filling pressure in MR. | (5) |
| 4A) | Define Prinzmetal angina. | (2) |
| 4B) | Mention two roles of platelets in ACS. | (2) |
| 4C) | Write various Biomarkers in ACS. | (2) |
| 4D) | Write various non MI causes of troponin elevation. | (2) |
| 4E) | What is Phlebotomy? | (2) |

-----End-----