

Question Paper

Exam Date & Time: 19-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. CARDIAC CATHETER AND INTERVENTION INTERVENTION EXAMINATION - APRIL 2022
SUBJECT: MCAT 603 - CLINICAL CARDIOLOGY
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the etiology, pathophysiology, clinical evaluation and diagnosis of palpitation in detail. (20)
- 2) Discuss the mechanism of action, indication, dosage, complication of diuretics. (20)
- 3A) Discuss the pathophysiology, clinical syndromes and management of heart failure. (10)
- 3B) Explain determinants and evaluation method of arterial blood pressure in detail. (10)
- 3C) Describe pathophysiology and clinical manifestation in Pulmonary edema. (10)
- 3D) Define jugular venous pressure. Discuss about the estimation of venous pressure in normal and diseased conditions. (10)
- 4A) Discuss about the differentiating features between central and peripheral cyanosis. (5)
- 4B) Write a note on reentry mechanism of arrhythmia. (5)
- 4C) Write a note on wide splitting of S2. (5)
- 4D) Describe hoarseness and its causes. (5)

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Question Paper

Exam Date & Time: 21-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. CARDIAC CATH AND INTERVENTION TECHNOLOGY DEGREE EXAMINATION - APRIL 2022
SUBJECT: MCAT 601 - BASICS IN CARDIAC CATHETERIZATION AND INTERVENTION
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Discuss the indications and procedural techniques of right and left heart catheterization. | (20) |
| 2) | Explain the angiographic views in the identification of coronary arterial and venous anatomy. | (20) |
| 3A) | Explain stochastic and deterministic effects of radiations. | (10) |
| 3B) | Discuss the troubleshooting of Intraortic balloon pump. | (10) |
| 3C) | Write a note on Image Intensifier. | (10) |
| 3D) | Discuss the pros and cons of Radial artery approach for intervention. | (10) |
| 4A) | Write a note on atherectomy devices. | (5) |
| 4B) | Explain the safety of handling blood and body fluids in cathlab. | (5) |
| 4C) | Write a note on basic cardiac catheterization complications. | (5) |
| 4D) | Mention the four pathways of LMCA anomalies. | (5) |

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