

Question Paper

Exam Date & Time: 25-Jan-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc.(CARDIAC CATH & INTERVENTION TECHNOLOGY) DEGREE EXAMINATION - JANUARY 2023
SUBJECT: MCAT 603/MECO 603- CLINICAL CARDIOLOGY
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Explain cyanosis, types, etiology ,pathophysiology and clinical evaluation of cyanosis in detail | (20) |
| 2) | Explain the X-RAY interpretation of pulmonary arterial and pulmonary venous flow in detail. | (20) |
| 3A) | Explain the etiology of cardiac and non -cardiac chest pain | (10) |
| 3B) | Describe continuous murmur in detail | (10) |
| 3C) | Explain the factors affecting the intensity of S1 heart sound and mention the causes for abnormal S1 | (10) |
| 3D) | Explain the normal and abnormal characters of arterial pulse | (10) |
| 4A) | Describe parasternal heave | (5) |
| 4B) | Explain the ECG findings of WPW syndrome | (5) |
| 4C) | Write a note on B- blockers | (5) |
| 4D) | Describe S3 and S4 heart sounds | (5) |

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Question Paper

Exam Date & Time: 27-Jan-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

I SEMESTER M.Sc. CCIT DEGREE EXAMINATION - JANUARY 2023
SUBJECT: MCAT 601 - BASICS IN CARDIAC CATHETERISATION AND INTERVENTION
(2018 SCHEME)

Answer ALL questions.

Marks: 100

Duration: 180 mins.

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| 1) | Explain angiographic approach to coronary artery lesion classification and discuss the concepts in interpretation of coronary angiograms | (20) |
| 2) | Explain various diagnostic catheters used during right and left heart catheterization | (20) |
| 3A) | Discuss the different types of designs and modules in stent manufacture | (10) |
| 3B) | Discuss electrical cardioversion in detail | (10) |
| 3C) | Define and explain the role of FFR and RFR in coronary lesion assessment | (10) |
| 3D) | Write a note on lumbar aortic puncture | (10) |
| 4A) | What is Rotational angiography | (5) |
| 4B) | Write a note on Embolic protection devices | (5) |
| 4C) | Explain deterministic and stochastic effects of radiation | (5) |
| 4D) | Explain peripheral anatomy in detail | (5) |

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