

Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. CARDIAC CATHETERIZATION AND INTERVENTION TECHNOLOGY DEGREE
EXAMINATION - JUNE 2024

SUBJECT: CCI5201 - CARDIAC CATH AND INTERVENTION IN IHD AND VHD
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Give the classification of cardiac valves and explain the pathogenesis and pathophysiology of rheumatic heart diseases. | (20) |
| 2) | Explain and discuss the assessment of cardiac output measurements and vascular resistance by cardiac catheterization. | (20) |
| 3A) | What are MACE seen during primary coronary intervention and add a note on its management? | (10) |
| 3B) | Categorize the features in differential diagnosis of acute MI. | (10) |
| 3C) | Mention the therapeutic guidelines for TAVI procedure. | (10) |
| 3D) | Discuss the interpretation of MR and AR severity by angiography. | (10) |
| 4A) | Outline the coronary collaterals classification. | (5) |
| 4B) | Summarize a short note on syndrome X2. | (5) |
| 4C) | What is the balloon selection criteria for various cardiac Valvuloplasty. | (5) |
| 4D) | Explain the metabolism of coronary blood flow. | (5) |

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Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION - JUNE 2024
SUBJECT: CVS5201 - ISCHEMIC AND VALVULAR HEART DISEASE
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Explain the etiology, pathophysiology, clinical presentation, diagnosis, and management of aortic regurgitation. | (20) |
| 2) | Describe ischemic cascade and explain the evaluation and management of complications of Acute coronary syndrome. | (20) |
| 3A) | Explain the pathophysiology and clinical manifestation in aortic stenosis. | (10) |
| 3B) | Explain the pathology, evaluation and role of echocardiography in endocarditis. | (10) |
| 3C) | Explain the role of echocardiography in pericarditis. | (10) |
| 3D) | Explain about Pseudo aneurysm and chronic remodeling - Mural thrombus. | (10) |
| 4A) | List the role of echocardiography in pulmonary stenosis. | (5) |
| 4B) | List the complications of TMT. | (5) |
| 4C) | Explain coronary slow flow. | (5) |
| 4D) | List the indications and contraindication to stress echocardiography. | (5) |

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Question Paper

Exam Date & Time: 20-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. ECHOCARDIOGRAPHY/CARDIAC CATH AND INTERVENTIONAL TECHNOLOGY DEGREE
EXAMINATION - JUNE 2024
SUBJECT: CVT5201 - CARDIOVASCULAR MEDICINE
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Define hypertensive emergency. Explain the etiology, pathophysiology and management of hypertensive emergency. | (20) |
| 2) | Explain the causes, symptoms, clinical diagnosis and treatment of Beri Beri. | (20) |
| 3A) | Explain the risk factors, hemodynamic and clinical features of ascites. | (10) |
| 3B) | Analyze the classification, etiology, treatment and cardiac function assessment of fever of unknown origin. | (10) |
| 3C) | List the appropriate indications and contra indications for cardiovascular computed tomography. | (10) |
| 3D) | Discuss the cardiovascular features associated with systemic lupus erythematosus. | (10) |
| 4A) | Explain the genetic issues associated with Arrhythmogenic right ventricular cardiomyopathy. | (5) |
| 4B) | Explain the Goldman index to predict cardiac risk in detail. | (5) |
| 4C) | Explain echo guided technique involved in Pericardiocentesis. | (5) |
| 4D) | Explain Pre-test Probability of Deep Vein Thrombosis (Wells Score) in detail. | (5) |

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