

Question Paper

Exam Date & Time: 23-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. PERFUSION TECHNOLOGY DEGREE EXAMINATION - APRIL 2022
SUBJECT: MPFT 601 - CARDIOLOGY
(2018 SCHEME)

Answer ALL Questions.
Draw Diagrams wherever Appropriate.

Marks: 50

Duration: 120 mins.

Long Essay:

1. Explain heart failure in detail under following heading:

- | | | |
|-----|-------------------|-----|
| 1A) | Definition | (2) |
| 1B) | Classification | (3) |
| 1C) | Clinical features | (3) |
| 1D) | Pathophysiology | (3) |
| 1E) | Diagnosis | (3) |
| 1F) | Complications | (3) |
| 1G) | Management | (3) |

2. Short Essay:

- | | | |
|-----|--|------|
| 2A) | Explain in detail about aortic regurgitation and mitral regurgitation? | (10) |
| 2B) | Define VSD. Explain in detail about types of VSD? | (10) |

3. Short Answers:

- | | | |
|-----|---|-----|
| 3A) | Explain about a normal ECG with a neat labeled diagram. | (5) |
| 3B) | Explain about coronary artery disease, types, diagnosis and management. | (5) |

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Question Paper

Exam Date & Time: 21-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. PERFUSION TECHNOLOGY DEGREE EXAMINATION - APRIL 2022
SUBJECT: MPFT 603 - CARDIAC SURGERY
(2018 SCHEME)

Answer ALL Questions.
Draw Diagrams wherever Appropriate.

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain in detail about aortic aneurysm and its management. (20)
- 2) What is cyanotic heart diseases? Enlist various types of cyanotic heart disease and describe about following conditions. (10)
 - i) TGA
 - ii) TOF
 - iii) AV Canal defects(1+1+3+3+2 = 10 marks)
3. Explain the following clinical conditions:
 - 3A) Aortic Regurgitation. (4)
 - 3B) Mitral Regurgitation. (4)
 - 3C) Tricuspid valve regurgitation. (2)
- 4A) Explain about various conduits used in CABG. (5)
- 4B) Complications of cardiac surgery. (5)

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Question Paper

Exam Date & Time: 19-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. PERFUSION TECHNOLOGY DEGREE EXAMINATION - APRIL 2022
SUBJECT: MPFT 605 - INTRODUCTION TO OT AND PERFUSION TECHNOLOGY
(2018 SCHEME)

Answer ALL Questions.

Draw Diagrams wherever Appropriate.

Marks: 50

Duration: 120 mins.

Answer all the questions.

- | | | |
|-----|---|------|
| 1) | Explain in detail about various components of CPB. | (20) |
| 2A) | Basic Life Support and Advanced Cardiac life support. | (10) |
| 2B) | Define hemofiltration. Explain its types, indications and advantages. | (10) |
| 3A) | Steps involved in assembling and priming of CPB circuit. | (5) |
| 3B) | Define occlusion of roller pump, its methods and importance. | (5) |

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