

# Question Paper

Exam Date & Time: 23-May-2024 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. PFT DEGREE EXAMINATION - MAY/JUNE 2024  
SUBJECT: PFT3241 - PROGRAM ELECTIVE- II - ECMO AND PATIENT MANAGEMENT  
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Draw Diagrams wherever Appropriate.

- |     |                                                                                                     |      |
|-----|-----------------------------------------------------------------------------------------------------|------|
| 1)  | Explain weaning principles of VA & VV ECMO.                                                         | (10) |
| 2)  | Define accidental decannulation and explain its causes, prevention & response with its management.  | (10) |
| 3A) | What are the indications for circuit change & list the routine investigation done on ECMO patients. | (5)  |
| 3B) | Explain the anticoagulation strategy during ECMO.                                                   | (5)  |
| 3C) | Explain the extracorporeal membrane circuit with neat, schematic diagram.                           | (5)  |
| 3D) | Explain the cannulation technique for veno-venous ECMO.                                             | (5)  |
| 4A) | What is seldinger technique?                                                                        | (2)  |
| 4B) | List the causes for chattering in venous side of ECMO circuit.                                      | (2)  |
| 4C) | How does ECMO provide respiratory & cardiac support?                                                | (2)  |
| 4D) | What is arterialized venous blood?                                                                  | (2)  |
| 4E) | How the haemolysis diagnosed during ECMO?                                                           | (2)  |

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