

# Question Paper

Exam Date & Time: 25-Jun-2024 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

**FOURTH SEMESTER M.Sc. RENAL REPLACEMENT THERAPY AND DIALYSIS TECHNOLOGY DEGREE EXAMINATION  
- JUNE 2024**

**SUBJECT: RRT6201 - ADVANCES IN DIALYSIS TECHNIQUES  
(2021SCHEME)**

**Marks: 100**

**Duration: 180 mins.**

**Answer all the questions.**

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|-----|--|------|
| 1)  | List the indications for dialysis in pediatric patients. Explain the complications and management of hemodialysis in pediatrics. | (20) |
| 2)  | Explain the mode of transmission and preventive measures taken to prevent the spread of HIV infection in the dialysis unit.      | (20) |
| 3A) | What are the complications of renal replacement therapies in elderly patients?   | (10) |
| 3B) | Outline the screening of hepatitis virus in dialysis patients.   | (10) |
| 3C) | Explain tuberculosis management in dialysis patients.  | (10) |
| 3D) | Outline the advantages, disadvantages and complications of online hemodiafiltration.   | (10) |
| 4A) | Outline the hemodialysis prescription for dialyzing post-surgery patients.   | (5)  |
| 4B) | Explain the management of MRSA in dialysis patients.   | (5)  |
| 4C) | What is CMV infection?   | (5)  |
| 4D) | Define wearable dialysis device. List the advantages and disadvantages of wearable dialysis devices.                             | (5)  |

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# Question Paper

Exam Date & Time: 27-Jun-2024 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

**FOURTH SEMESTER M.Sc. RENAL REPLACEMENT THERAPY AND DIALYSIS TECHNOLOGY DEGREE EXAMINATION  
- JUNE 2024**

**SUBJECT: RRT6202 - REHABILITATION AND QUALITY ASSURANCE IN DIALYSIS TECHNOLOGY  
(2021 SCHEME)**

**Marks: 50**

**Duration: 120 mins.**

**Answer all the questions.**

- |     |   |      |
|-----|---|------|
| 1)  | Outline the complications related to hemodialysis vascular access. Explain the monitoring and surveillance of the hemodialysis vascular access. | (20) |
| 2A) | List the types of pain in chronic kidney disease and explain the methods for pain management in chronic kidney disease.                         | (10) |
| 2B) | List and explain the factors affecting dialysis quality.  | (10) |
| 3A) | Explain the effects of physical functioning on health and disease condition.  | (5)  |
| 3B) | Outline the quality assurance for dialysis delivery system.   | (5)  |

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