

# Question Paper

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



## MANIPAL ACADEMY OF HIGHER EDUCATION

**SECOND SEMESTER M.Sc. RENAL REPLACEMENT THERAPY AND DIALYSIS TECHNOLOGY DEGREE EXAMINATION**

**- JUNE 2024**

**SUBJECT: RRT5201 - HOSPITAL ORGANISATION AND ADMINISTRATION  
(2021 SCHEME)**

**Marks: 100**

**Duration: 180 mins.**

**Answer all the questions.**

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|-----|--|------|
| 1)  | Outline the responsibilities of various government authorities at State and Central level in the management of biomedical waste. Mention about the amendment made in 2018 in Biomedical Waste Management (BMW) rules. Classify BMW according to the latest BMW rules 2016. | (20) |
| 2)  | Explain Strategic Management tool. Outline staffing in hospital setting.   | (20) |
| 3A) | What are the leadership styles adopted in managing organizations? Explain any two of them.   | (10) |
| 3B) | What is Material Management and write about its importance in hospitals. Explain the different techniques of Inventory Control.  | (10) |
| 3C) | List out the various support services in a hospital. Explain the function of Central Sterile Supply Department.  | (10) |
| 3D) | Explain the importance of NABH in maintaining quality in a hospital.   | (10) |
| 4A) | Outline any three theories of motivation.  | (5)  |
| 4B) | What are different In-Patient ward designs? Mention advantages & disadvantages of any two-ward design.   | (5)  |
| 4C) | Explain Consumer Protection Act.   | (5)  |
| 4D) | Outline the roles and responsibility of Public Relations in Hospital.  | (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. RENAL REPLACEMENT THERAPY AND DIALYSIS TECHNOLOGY DEGREE EXAMINATION  
- JUNE 2024**

**SUBJECT: RRT5202 - COMPLICATIONS OF KIDNEY DISEASE AND DIALYSIS  
(2021 SCHEME)**

**Marks: 100**

**Duration: 180 mins.**

**Answer all the questions.**

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|-----|--|------|
| 1)  | Classify the types of bone disorders. Explain their causes, prevention, and management in kidney failure patients. | (20) |
| 2)  | Explain peritoneal dialysis procedure-related complications.   | (20) |
| 3A) | Outline the importance of the anion gap in renal failure. Explain metabolic acidosis.                              | (10) |
| 3B) | Outline the treatment of renal anemia and mention its adverse effects.   | (10) |
| 3C) | Explain the acute complications related to dialysis catheter insertion.  | (10) |
| 3D) | Outline the causes and management of hemodialysis membrane-related complications.                                  | (10) |
| 4A) | Outline the mechanism of insulin resistance in kidney failure patients.  | (5)  |
| 4B) | Explain protein energy malnutrition.   | (5)  |
| 4C) | List the causes and preventive measures for vascular calcification in chronic kidney disease patients.             | (5)  |
| 4D) | Outline the preventive measures for sleep disorders in chronic kidney disease patients.                            | (5)  |

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# Question Paper

Exam Date & Time: 22-Jun-2024 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

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

**SUBJECT: RRT5203 - EXTRACORPOREAL BLOOD THERAPIES IN NEPHROLOGY  
(2021 SCHEME)**

**Marks: 100**

**Duration: 180 mins.**

**Answer all the questions.**

- 1) Outline the indications for continuous renal replacement therapy in chronic kidney diseases. Explain continuous veno-venous hemodiafiltration with a circuit diagram. (20)
- 2) Define plasmapheresis. Explain each modality of plasmapheresis. (20)
- 3A) Explain the requirements and procedure of high flux hemodialysis. (10)
- 3B) Compare artificial and bioartificial liver support systems. Outline the prescription of molecular adsorbent recirculating system. (10)
- 3C) Explain sorbent hemodialysis system. Outline the advantages and disadvantages of sorbent hemodialysis. (10)
- 3D) Explain the complications of hemadsorption. (10)
- 4A) Define high cut-off hemodialysis and outline its importance. (5)
- 4B) Define high efficiency hemodialysis. List the ideal characteristics for high-efficiency dialyzer. (5)
- 4C) Outline the prescription of slow continuous ultrafiltration (SCUF) for chronic kidney disease. (5)
- 4D) Explain the clinical setup required for single needle dialysis and outline its advantages and disadvantages. (5)

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