

# Question Paper

Exam Date & Time: 05-Jan-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - JANUARY 2021  
SUBJECT: BDT 301 - RENAL TRANSPLANTATION AND HEMODIALYSIS GUIDELINES  
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- |     |                                                                                                                                     |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|------|
| 1A) | Explain the types, features and functions of immunity.                                                                              | (20) |
| 1B) | Discuss living kidney donor transplant process.                                                                                     | (20) |
| 2A) | Explain the functions of T lymphocytes.                                                                                             | (10) |
| 2B) | Explain the specifications for HD area & dialyzer reprocessing area as recommended by ISN.                                          | (10) |
| 3A) | What is the importance of Allen's Test? Explain Allen's & modified Allen's test.                                                    | (5)  |
| 3B) | Discuss relative and absolute contraindications for living donor kidney transplantation.                                            | (5)  |
| 3C) | What are the precautions taken to avoid dialyzer clotting?                                                                          | (5)  |
| 3D) | Discuss ethical and social issues related to dialysis.                                                                              | (5)  |
| 3E) | What is graft rejection? How it can be prevented?                                                                                   | (5)  |
| 3F) | Which are the very common blood borne viral infections seen in hemodialysis patient? How blood spills are managed in dialysis unit? | (5)  |
| 4A) | Why blood transfusion is restricted for potential kidney recipients?                                                                | (2)  |
| 4B) | Write the recommended microbial and endotoxin levels for AAMI and European standards.                                               | (2)  |
| 4C) | Write any two advantages of living donor kidney transplantation.                                                                    | (2)  |
| 4D) | <b>Expand the following:</b><br>i) HLA<br>ii) PRA                                                                                   | (2)  |
| 4E) | Write any two side effects of calcineurin Inhibitors.                                                                               | (2)  |

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# Question Paper

Exam Date & Time: 07-Jan-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - JANUARY 2021  
SUBJECT: BDT 303 - DIALYSIS TECHNOLOGY III  
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- |     |                                                                                                                                                                         |      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1A) | List the components of hemodialysis prescription and discuss hemodialysis prescription for initial hemodialysis, regular adult hemodialysis and pediatric hemodialysis. | (20) |
| 1B) | What are the causes for malnutrition in chronic kidney disease and how it is assessed and managed?                                                                      | (20) |
| 2A) | Discuss regional heparinization technique and heparin free hemodialysis.                                                                                                | (10) |
| 2B) | Describe diet plan in chronic kidney disease.                                                                                                                           | (10) |
| 3A) | Discuss peritonitis in peritoneal dialysis.                                                                                                                             | (5)  |
| 3B) | Brief about peritoneal dialysis disadvantages.                                                                                                                          | (5)  |
| 3C) | Explain hyperglycemia and hypo/hyperkalemia in peritoneal dialysis patients.                                                                                            | (5)  |
| 3D) | Discuss phobia and its management in hemodialysis patients.                                                                                                             | (5)  |
| 3E) | Write a descriptive note on diet in acute kidney injury.                                                                                                                | (5)  |
| 3F) | Describe any two components of nutrition.                                                                                                                               | (5)  |
| 4A) | Expand URR and mention where it is used?                                                                                                                                | (2)  |
| 4B) | What is CAPD?                                                                                                                                                           | (2)  |
| 4C) | Write any two side effects of heparin?                                                                                                                                  | (2)  |
| 4D) | What is tight heparinisation?                                                                                                                                           | (2)  |
| 4E) | Name any two water soluble vitamins.                                                                                                                                    | (2)  |

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