

Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Answer ALL question.

Marks: 100

Duration: 180 mins.

- 1A) Discuss deceased kidney donor transplant process. (20)
- 1B) Why water treatment plant is required in hemodialysis unit? Explain the guidelines recommended by the Indian Society of Nephrology for the water treatment plant. (20)
- 2A) Define organ transplantation. Discuss the types of organ transplantation with examples. (10)
- 2B) Explain the Complement Dependent Cytotoxicity method of crossmatch. (10)
- 3A) What is an autoimmune disorder? Explain what happens to the immune system during this condition. (5)
- 3B) How dialysate related complications can be prevented in the hemodialysis unit? Discuss. (5)
- 3C) Why the dialyzer performance tests are important? Name the tests. (5)
- 3D) Discuss the routes of sensitization in an organ recipient and how it affects transplantation. (5)
- 3E) Write the preventive measures used to avoid Hepatitis B infection spreading in the hemodialysis unit. (5)
- 3F) Discuss ethical and social issues related to dialysis. (5)
- 4A) What are the special features of acquired immunity? (2)
- 4B) Which materials are recommended for water pipeline fittings in the dialysis unit? (2)
- 4C) Write a note on the buttonhole technique. (2)
- 4D) Write any two patient-related factors which favour clotting of the extracorporeal circuit. (2)
- 4E) Name the origins of T cells and B cells. (2)

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Question Paper

Exam Date & Time: 09-Dec-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Marks: 100

Duration: 180 mins.

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| 1A) | Discuss hemodialysis adequacy. Explain the factors that determine hemodialysis adequacy. | (20) |
| 1B) | Describe the complications associated with peritoneal dialysis and its management. | (20) |
| 2A) | Define half-life. Describe the anticoagulation techniques used in hemodialysis. | (10) |
| 2B) | Discuss the dietary recommendations for chronic kidney disease patients. | (10) |
| 3A) | Explain Kubler Ross Model stages. | (5) |
| 3B) | Discuss hyperglycemia and hypoglycemia in peritoneal dialysis patients. | (5) |
| 3C) | Define URR & Kt/V. Discuss the role of Kt/V in peritoneal dialysis adequacy. | (5) |
| 3D) | Describe hemodialysis prescription for initial dialysis. | (5) |
| 3E) | Write a note on protein-energy malnutrition. | (5) |
| 3F) | List the advantages and disadvantages of peritoneal dialysis. | (5) |
| 4A) | Write the importance of counselling in chronic kidney disease patients. | (2) |
| 4B) | Name any two water soluble vitamins. | (2) |
| 4C) | What is dementia? | (2) |
| 4D) | Which complications are commonly seen in high membrane transporters in peritoneal dialysis? | (2) |
| 4E) | What is co-current flow? When it is indicated? | (2) |

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