

# Question Paper

Exam Date & Time: 09-Dec-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. (RRT & DT) DEGREE EXAMINATION - DECEMBER 2019

SUBJECT: BDT 201 - DIALYSIS TECHNOLOGY I

(2016 SCHEME)

Monday, December 09, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

### Answer all the questions.

- 1A) Describe hemodialysis. Define the principals involved in hemodialysis and describe factors affecting diffusion in hemodialysis. (20)
- 1B) Explain anatomy of peritoneum. Describe peritoneal dialysis procedure. (20)
- 2A) Name any three hemodialysis machine make. Briefly discuss two types of circuits involved in the hemodialysis machine. (10)
- 2B) List the indications and contraindications for hemodialysis. (10)
- 3A) Differentiate high flux and low flux dialyser. (5)
- 3B) List the types of PD regimens. (5)
- 3C) What is semipermeable membrane? Write its significance in dialysis. (5)
- 3D) Compare and contrast normal kidney functions with dialysis. (5)
- 3E) Discuss vascular access device. (5)
- 3F) Define solution and write a note on it. (5)
- 4A) Define dialyser KoA. (2)
- 4B) Write any two advantages of peritoneal dialysis over hemodialysis. (2)
- 4C) What is omentum? (2)
- 4D) Define osmosis and convection. (2)
- 4E) List the peritoneal dialysis apparatus. (2)

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