# **Question Paper**

Exam Date & Time: 15-Jan-2021 (10:00 AM - 01:00 PM)



### MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. RRT & DT DEGREE EXAMINATION - JANUARY 2021 SUBJECT: BDT 201 - DIALYSIS TECHNOLOGY - I (2016 SCHEME)

Marks: 100 Duration: 180 mins.

#### Answer all the questions.

1)	Explain anatomy of peritoneum. List its functions and its importance in peritoneal dialysis.	(20)
2)	Describe hemodialysis. Define the principals involved in hemodialysis and describe factors affecting solute clearance in hemodialysis.	(20)
3)	List the indications and contraindications for peritoneal dialysis.	(10)
4)	Name any three hemodialysis machine make. Briefly discuss two types of circuits involved in the hemodialysis machine.	(10)
5A)	Write a note on tonicity of the solution.	(5)
5B)	What is semipermeable membrane? How it works in dialysis?	(5)
5C)	Which are the two performance characteristics used to choose a good dialyzer explain.	(5)
5D)	Write a note on CAPD.	(5)
5E)	Compare and contrast normal kidney functions with dialysis.	(5)
5F)	List the hemodialysis types.	(5)
6A)	Define Kuf.	(2)
6B)	What is omentum?	(2)
6C)	Expand CRRT.	(2)
6D)	List the peritoneal dialysis apparatus.	(2)
6E)	How osmosis is different from diffusion?	(2)

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# **Question Paper**

Exam Date & Time: 18-Jan-2021 (02:30 PM - 04:30 PM)



### MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./ B.Sc. P.F.T./ BPT/ B.Sc. M.R.T./B.Sc. RADIOTHERAPY TECHNOLOGY/ B.Sc. C.V.T./B.Sc. R.T./B.Sc. M.I.T./B.Sc. RRT&DT/B.Sc. EMT/B.Sc. AOTT DEGREE EXAMINATION - JANUARY 2021 SUBJECT: PATH 201 - PATHOLOGY (2016/2016 RV/2019 SCHEME)

Marks: 50 Duration: 120 mins.

#### Answer all the questions.

1A)	Define leukaemia. Classify acute leukaemia. Describe the clinical features of acute leukaemia. (2+2+2 = 6 marks)	(6)	
1B)	Describe the blood picture and chromosomal abnormality of chronic myeloid leukaemia.	(4)	
2A)	Compare the two major types of diabetes mellitus.	(5)	
2B)	Define shock. Explain the pathogenesis of septic shock. (2+3 = 5 marks)	(5)	
3A)	Explain the vascular and cellular changes in acute inflammation.	(5)	
3B)	Describe the etiology, modes of infection and clinical features of viral hepatitis.	(5)	
3C)	Explain the process of fracture healing with factors influencing the healing.	(5)	
3D)	Describe the types and morphology of tuberculosis.	(5)	
4. Write briefly on:			
4A)	Predisposing factors of atherosclerosis.	(2)	
4B)	Cerebrovascular diseases.	(2)	
4C)	Klinefelter's syndrome.	(2)	
4D)	Carcinogenesis with suitable examples.	(2)	
4E)	Clinical features of renal failure.	(2)	

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## **Question Paper**

Exam Date & Time: 20-Jan-2021 (02:30 PM - 04:30 PM)



#### MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./ B.Sc. P.F.T./BPT/ B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./B.Sc. RRT&DT/B.Sc. EMT/B.Sc. AOTT

DEGREE EXAMINATION 
JANUARY 2021

SUBJECT: MICR 201 - MICROBIOLOGY

(2016/2019 SCHEME)

Answer all the questions.

Draw diagrams wherever necessary.

Marks: 50 Duration: 120 mins. Define and classify hypersensitivity reactions. Write in detail about type I hypersensitivity reaction. (10)1) (1+2+7 = 10 marks)Describe in detail the pathogenesis and prophylaxis of poliomyelitis. 2) (10)(5+5 = 10 marks)3. Write short notes on: 3A) Bacterial flagella (5)3B) Laboratory diagnosis of enteric fever. (5) 3C) Autoclave (5)3D) **ELISA** (5)4. Write short notes on: (2) 4A) Define plasmids. Mention two properties of plasmids. Two contributions of Robert Koch. 4B) (2)Two staining methods for Mycobacterium tuberculosis. 4C) (2)4D) Draw a neat labelled diagram of trophozoite and cyst forms of Entamoeba histolytica. (2)Classify fungi according to morphology with one example each. 4E) (2)

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