Question Paper

Exam Date & Time: 10-Dec-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. (RRT & DT) DEGREE EXAMINATION - DECEMBER 2018 SUBJECT: BDT 201 - DIALYSIS TECHNOLOGY I (2016 SCHEME)

Monday, December 10, 2018 (14.00 - 17.00)

Answer ALL questions.

Marks: 100 Duration: 180 mins.

1A)	What are the components of hemodialysis apparatus? Discuss types of artificial kidney under different classifications and describe hollow fiber dialyzer design with a labelled diagram.	(20)
1B)	Define ultrafiltration. Discuss the factors affecting ultrafiltration in peritoneal dialysis.	(20)
2A)	Discuss APD.	(10)
2B)	List the advantages and disadvantages of peritoneal dialysis.	(10)
3A)	List any two functions of the hemodialysis machine and list the blood circuit alarms.	(5)
3B)	Write a note on omentum.	(5)
3C)	Write a note on semipermeable membrane.	(5)
3D)	Define diffusion. List the factors affecting diffusion.	(5)
3E)	Compare hemodialysis and peritoneal dialysis.	(5)
3F)	List the different hemodialysis machine modes for hemodialysis pre setup.	(5)
4A)	Define biocompatibility.	(2)
4B)	What is counter current flow?	(2)
4C)	Define osmosis.	(2)
4D)	List the steps of peritoneal dialysis procedure.	(2)
4E)	What is isotonic solution? Give an example.	(2)

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Question Paper

Exam Date & Time: 06-Dec-2018 (02:00 PM - 04:00 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

DEGREE EXAMINATION - DECEMBER 2018

SUBJECT: MICR 201 - MICROBIOLOGY

(2016 SCHEME)

Thursday, December 06, 2018 (14.00 - 16.00)

Answer ALL questions:

Duration: 120 mins. Marks: 50 1) With a labelled diagram explain the cell wall of gram positive and gram negative (10)bacteria. (5+5 = 10 marks)Explain the etio-pathogenesis and laboratory diagnosis of cholera. 2) (10)(1+4+5 = 10 marks)3) Write short notes on: Laboratory diagnosis of HIV infection (5) 3A) 3B) Bacterial growth curve (5) 3C) Pathogenesis of poliomyelitis (5) 3D) Laboratory diagnosis of viral infections (5) 4) Answer the following questions: Indirect immunofluorescence test (2) 4A) 4B) Clinical features of urinary tract infections (2) Types of vaccines with examples 4C) (2) Classification of PUO 4D) (2) Morphology of Entamoeba histolytica 4E) (2) ----Fnd-----



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./ B.Sc. P.F.T./ BPT/ B.Sc. M.R.T./B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./B.Sc. RRT&DT DEGREE EXAMINATION - DECEMBER 2018

SUBJECT: PATH 201 - PATHOLOGY

(2016 SCHEME)

Monday, December 03, 2018 (14.00 - 16.00)

Answer ALL questions:

Marks: 50 **Duration: 120 mins.** 1A) Define necrosis. List any three types of necrosis with examples. (5) (2+3 = 5 marks)1B) Define granuloma and illustrate it with a suitable diagram. Enumerate the causes of (5) granulomatous inflammation. (3+2 = 5 marks)2A) Describe the predisposing factors and complications of atherosclerosis. (5) 2B) Describe the aetiology and clinical features of rheumatic heart disease. (5) 3A) Differentiate between healing by primary and secondary intention with suitable (5) examples. Define embolism. Enlist the types of embolism. Write a note on the clinicopathological 3B) (5) consequences of pulmonary thromboembolism. (1+3+1 = 5 marks)3C) i) Write a short notes on: Emphysema (5) 3C) ii) Write a short notes on: Jaundice (5) Mention the confirmatory tests for iron deficiency anaemia and thalassemia. 4A) (2) 4B) List four features of a malignant tumour. (2) List four complications of diabetes mellitus. (2) 4C) List four features of nephrotic syndrome. (2) 4D) List four causes of thrombocytopenia. (2) 4E)

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