

Question Paper

Exam Date & Time: 16-Mar-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 - MARCH 2021
SUBJECT: PATH 201 - PATHOLOGY
(2016/2016 RV/2019 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define anaemia. Describe the clinical features and laboratory diagnosis of nutritional anaemias. (10)
(2+8 = 10 marks)
- 2A) Define and classify fracture. Describe the process of fracture healing. (5)
(2+3 = 5 marks)
- 2B) Compare rheumatoid arthritis and osteoarthritis. (5)
- 3A) Describe the features of malignancy and routes of tumour spread. (5)
- 3B) List the types of shock and describe the pathogenesis of any one. (5)
- 3C) List the predisposing factors and complications of atherosclerosis. (5)
- 3D) Compare nephrotic syndrome and nephritic syndrome with suitable examples. (5)
- 4A) List the various types of emphysema. (2)
- 4B) Define cirrhosis of liver. List two causes. (2)
- 4C) List the cardinal features of acute inflammation. (2)
- 4D) List four examples of X-linked diseases. (2)
- 4E) List the various types of necrosis with suitable examples. (2)

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Question Paper

Exam Date & Time: 18-Mar-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 - MARCH 2021
SUBJECT: MICR 201 - MICROBIOLOGY
(2016/2019 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) With a labelled diagram explain the cell wall of gram positive and gram negative bacteria. (10)
(5+5 = 10 marks)
- 2) Explain the pathogenesis and laboratory diagnosis of staphylococcal skin infections. (10)
(5+5 = 10 marks)

3. Write short notes on:

- 3A) Primary and secondary humoral immune response. (5)
- 3B) Autoclave. (5)
- 3C) Investigation of classical PUO. (5)
- 3D) Laboratory diagnosis of hepatitis B virus infection. (5)

4. Answer the following:

- 4A) Morphological classification of fungi. (2)
- 4B) Write two predisposing factors of urinary tract infections. (2)
- 4C) Immuno-prophylaxis of poliomyelitis. (2)
- 4D) Functions of bacterial capsule. (2)
- 4E) Write the principle and one use of direct immunofluorescence test. (2)

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Question Paper

Exam Date & Time: 22-Mar-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Marks: 100

Duration: 180 mins.

A

Answer all the questions.

- 1) Define peritoneal dialysis. Explain the types of peritoneal dialysis regimens. (20)
- 2) What is semipermeable membrane? Describe the structure of a hollow fibre dialyzer and classify on the basis of membrane material. (20)
- 3) Describe the peritoneum structure and list the functions of peritoneum. (10)
- 4) Write a note on solute transport mechanisms and discuss the factors affecting these mechanisms. (10)
- 5A) Write a note on vascular access devices. (5)
- 5B) List the components of hemodialysis dialysate and explain the steps of dialysis concentrate preparation. (5)
- 5C) What are the advantages and disadvantages of hemodialysis over peritoneal dialysis? (5)
- 5D) Write the indications for peritoneal dialysis. (5)
- 5E) Discuss the principle of fluid removal in hemodialysis. List the factors affecting fluid removal. (5)
- 5F) What is dwell in peritoneal dialysis? List the importance of dwell time. (5)
- 6A) Define solution. (2)
- 6B) What is the effective peritoneal surface area? (2)
- 6C) Write any two functions of hemodialysis machines. (2)
- 6D) What are the two differences between hemodialysis access and peritoneal dialysis access? (2)
- 6E) What is dialysis? (2)

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