

# Question Paper

Exam Date & Time: 19-Feb-2020 (02:00 PM - 04:00 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 DEGREE EXAMINATION - FEBRUARY 2020  
SUBJECT : PATH 201/BMRT 207 - PATHOLOGY  
(2016/2016 RV SCHEME)  
PATHOLOGY [PATH 201 - 2016]

Marks: 50

Duration: 120 mins.

A

Answer all the questions.

- 1) Define leukemia. Describe the clinical features, peripheral smear findings and chromosomal abnormality of chronic myeloid leukaemia. (10)  
(2+3+3+2 = 10 marks)
- 2A) Describe the predisposing factors and clinical features of atherosclerosis. (5)  
(3+2 = 5 marks)
- 2B) Define thrombosis. Describe the factors influencing thrombosis. (5)  
(2+3 = 5 marks)

3) Write short notes on:

- 3A) Differences between benign and malignant tumours (5)
- 3B) Fracture healing (5)
- 3C) Cellular events in acute inflammation (5)
- 3D) Pneumonia (5)

4) Answer the following questions:

- 4A) List the clinical features of an X-linked recessive disorder. (2)
- 4B) Enumerate the characteristic features of nephrotic syndrome. (2)
- 4C) List the types of jaundice with an example of each. (2)
- 4D) List the types of tuberculosis. (2)
- 4E) Name four reversible cellular adaptations with an example of each. (2)

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# Question Paper

Exam Date & Time: 20-Feb-2020 (02:00 PM - 04:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.O.T./BPT/ B.Sc. C.V.T./B.Sc. R.T./ B.Sc. M.I.T./B.Sc. RRT&DT DEGREE EXAMINATION -  
FEBRUARY 2020  
SUBJECT : MICR 201 - MICROBIOLOGY  
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain the mechanisms of autoimmunity. List two diseases each involving single and multiple organ or system. (6+4 = 10 marks) (10)
- 2) Explain the etio-pathogenesis and laboratory diagnosis of clostridial myonecrosis. (1+4+5 = 10 marks) (10)

3) Write short notes on:

- 3A) Laboratory diagnosis of HIV infection (5)
- 3B) Investigation of hospital acquired infections (5)
- 3C) Pathogenesis of influenza virus (5)
- 3D) Laboratory diagnosis of enteric fever (5)

4) Answer the following questions:

- 4A) Prevention of tetanus (2)
- 4B) Laboratory diagnosis of acute rheumatic fever (2)
- 4C) Functions of IgA antibody (2)
- 4D) Classification of sterilization methods (2)
- 4E) Transmission of viral hepatitis (2)

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# Question Paper

Exam Date & Time: 21-Feb-2020 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. (RRT & DT) DEGREE EXAMINATION - FEBRUARY 2020  
SUBJECT: BDT 201 - DIALYSIS TECHNOLOGY I  
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Give brief introduction about hemodialysis. What are the reasons to initiate hemodialysis and when is it contraindicated? List the advantages and disadvantages. (20)
- 2) Explain principles involved and factors affecting them in peritoneal dialysis. (20)
- 3) Explain the steps of peritoneal dialysis. (10)
- 4) What is conductivity with reference to hemodialysis? Discuss dialysate composition for hemodialysis. (10)
- 5A) Which are the two performance characteristics used to choose a good dialyzer explain. (5)
- 5B) Explain the importance of three pore model in peritoneal dialysis. (5)
- 5C) Discuss principles involved in hemodialysis. (5)
- 5D) List any two functions of the hemodialysis machine and list the blood circuit alarms. (5)
- 5E) What are the advantages of peritoneal dialysis? (5)
- 5F) Write a note on tonicity of the solution. (5)
- 6A) What is aquaporin? (2)
- 6B) Define sieving coefficient. (2)
- 6C) Write any two difference between hemodialysis and peritoneal dialysis. (2)
- 6D) Define diffusion. (2)
- 6E) What you mean by biocompatible membrane? Give an example for biocompatible membrane. (2)

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