

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:

Marks: 50

Duration: 120 mins.

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

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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 granulomatous inflammation. (5)
(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 examples. (5)
- 3B) Define embolism. Enlist the types of embolism. Write a note on the clinicopathological consequences of pulmonary thromboembolism. (5)
(1+3+1 = 5 marks)
- 3C) i) Write a short notes on: Emphysema (5)
- 3C) ii) Write a short notes on: Jaundice (5)
- 4A) Mention the confirmatory tests for iron deficiency anaemia and thalassaemia. (2)
- 4B) List four features of a malignant tumour. (2)
- 4C) List four complications of diabetes mellitus. (2)
- 4D) List four features of nephrotic syndrome. (2)
- 4E) List four causes of thrombocytopenia. (2)

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