

Question Paper

Exam Date & Time: 18-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. MLT DEGREE EXAMINATION - APRIL 2022
SUBJECT: MMLT 703.1 - SYSTEMATIC BACTERIOLOGY AND MYCOLOGY
(SPECIALIZATION: MICROBIOLOGY AND IMMUNOLOGY)
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

Draw diagram wherever necessary.

- 1) Name the causative agents of enteric fever. Describe the pathogenesis and laboratory diagnosis of enteric fever. Add a note on prophylaxis. (20)
- 2) Enumerate the dimorphic fungi. Describe the etiology, pathogenesis and laboratory diagnosis of histoplasmosis. Add a note on treatment. (20)
- 3A) Describe the pathogenesis and laboratory diagnosis of Gas gangrene. (10)
- 3B) Classify vibrio. Describe the pathogenesis and diagnosis of Cholera. (10)
- 3C) Define mycetoma. Discuss pathogenesis and laboratory diagnosis of eumycetoma. (10)
- 3D) Discuss the pathogenesis and laboratory identification of allergic bronchopulmonary aspergillosis. (10)
- 4A) Explain the streptococcal infections and their complications. (5)
- 4B) Describe the Pathogenesis of leprosy. (5)
- 4C) Explain the diagnostic tests in mycology. (5)
- 4D) Explain mycotoxicosis. (5)

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Question Paper

Exam Date & Time: 20-Apr-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. MLT DEGREE EXAMINATION - APRIL 2022
SUBJECT: MMLT 707.1 - VIROLOGY AND PARASITOLOGY
(SPECIALIZATION: MICROBIOLOGY AND IMMUNOLOGY)
(2018 SCHEME)

Answer ALL the questions.

Draw Diagram wherever necessary.

Marks: 100

Duration: 180 mins.

- 1) Note on malaria transmitting vector. Describe the life cycle of Plasmodium species and pathogenesis. Add a note on laboratory diagnosis of malaria. (20)
(4+6+5+5 = 20 marks)
- 2) Describe the structure of hepatitis B virus. Mention the source and mode of transmission of infection. Discuss Clinical features and laboratory diagnosis of Hepatitis B infection. Add a note on its prophylaxis. (20)
(3+4+5+6+2 = 20 marks)

3. Write detailed notes on:

- 3A) General features of cestodes. Discuss on pathogenesis of tapeworm. (10)
(4+6 = 10 marks)
- 3B) Discuss on life cycle, pathogenesis and laboratory diagnosis of Enterobius vermicularis. (10)
(3+3+4 = 10 marks)
- 3C) Describe the pathogenesis and laboratory diagnosis of influenza virus infection. List the differences between antigenic shift and drift. (10)
(3+4+3 = 10 marks)
- 3D) Discuss arboviruses and the disease caused by them. (10)
(5+5 = 10 marks)

4. Write short notes on:

- 4A) Health problems associated with medically important arthropods. (5)
- 4B) Life cycle and laboratory diagnosis of Trichomonas vaginalis. (5)
- 4C) General features and classification of viruses. (5)
- 4D) Prion disorders. (5)

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