12-07-2025

Printing Pages :1
Paper Code : MMB-301 A (SVSU:2024-25/R)

Enrollment No.												

MSC (MEDICAL MICROBIOLOGY)
THIRD YEAR EXAMINATION
Paper First
VIROLOGY & MYCOLOGY

Time: Three Hours **Maximum Marks: 100**

Note: Attempt all questions and draw labelled diagrams wherever necessary.

I. Long Assay Question **[60 marks]**

1. Describe the antigenic structure, pathogenicity and laboratory diagnosis of Hepatitis B virus. **[20]**
2. Enumerate the common Candida species infecting man. Describe the epidemiology, pathogenicity and laboratory diagnosis of Candidiasis. **[20]**
3. Enumerate the arboviruses that cause haemorrhagic fever. Describe clinical features and laboratory diagnosis of Dengue Virus **[20]**

II. Short notes on **[30 marks]**

1. COVID 19 **[10]**
2. Dermatophytoses **[10]**
3. Newer Antifungal Agents **[10]**

III. Differentiate between **[10 marks]**

1. Antigenic shift and Antigenic drift **[5]**
2. Hyphae and Pseudohyphae **[5]**

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14-07-2025

Printing Pages :1
Paper Code : MMB-302 A (SVSU:2024-25/R)
Enrollment No.

MSC (MEDICAL MICROBIOLOGY)
THIRD YEAR EXAMINATION
Paper Second
RECENT ADVANCE & APPLIED MICROBIOLOGY

Time: Three Hours **Maximum Marks: 100**

Note: Attempt all questions and draw labelled diagrams wherever necessary.

I. Long Assay Question **[60 marks]**

1. Define various clinical entities related to infections of central nervous system and enumerate their fungal causes. Describe classification and virulence factors of *Cryptococcus* and laboratory diagnosis of cryptococcal meningitis. **[20]**
2. Define automation. Describe the various methods available and their role in clinical microbiology. **[20]**
3. Define biomedical waste. Discuss Biomedical waste management in detail. **[20]**

II. Short notes on **[30 marks]**

1. Vaccination of healthcare professionals **[10]**
2. WHO's five moments of hand hygiene **[10]**
3. Emerging and re-emerging infections **[10]**

III. Differentiate between [10 marks]

1. Real time PCR and RT PCR **[5]**
2. Community acquired MRSA and Hospital acquired MRSA . **[5]**

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