

2016 Scheme

QP Code: 411019

Reg. No.....

Fourth Year B.Sc. Medical Microbiology Degree Supplementary Examinations July 2025

Paper XI – Virology and Mycology

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays

(2x15=30)

1. Discuss the morphology of Hepatitis B virus. Describe the modes of transmission, pathogenesis, laboratory diagnosis and immunoprophylaxis
2. Enumerate fungi causing systemic mycoses. Describe the pathogenesis, clinical manifestations, and laboratory diagnosis of Histoplasmosis

Brief Essays

(2x10=20)

3. Enumerate viruses causing encephalitis. Describe transmission cycle of Japanese Encephalitis virus. Discuss the laboratory diagnosis and prophylaxis
4. Name the fungi causing opportunistic infections in HIV-AIDS. Describe pathogenesis, mode of transmission and laboratory diagnosis of Penicilliosis

Short Answers

(6x5=30)

5. Discuss the pathogenesis, laboratory diagnosis and prophylaxis of varicella zoster virus infection
6. What are cytopathic effects in cell cultures and their diagnostic importance
7. Collection and transport of nasopharyngeal swabs for COVID-19 real time RTPCR
8. Laboratory diagnosis of Eumycotic mycetoma
9. Different staining methods used in identification of fungi
10. Dermatophytes

Comment on

(10x2=20)

11. Give two examples each for enveloped and non-enveloped viruses
12. What is viral hemagglutination and its uses
13. Name two antiviral agents and their use in viral diseases.
14. Name two rapid diagnostic tests used in HIV antibody detection.
15. Name two viruses routinely screened in blood donors.
16. Give one example each for true yeast and pseudo yeast. How are they different from one another
17. Morphology of Blastomyces in KOH mount in sputum sample
18. Name two fungi causing chromoblastomycosis
19. What are zoophilic and an anthropophilic fungi
20. What are ectothrix and endothrix
