

2016 Scheme

QP Code: 411019

Reg. No.....

Fourth Year B.Sc. Medical Microbiology Degree Supplementary Examinations July 2024

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 Human Immunodeficiency Virus (HIV). Describe the pathogenesis, modes of transmission and laboratory diagnosis of HIV infections. Add a note on Post-exposure prophylaxis.
2. Describe the classification of fungi based on morphology and sporulation with examples. Briefly describe the microscopic methods of detection and identification of common fungi from clinical specimen and fungal cultures. Discuss the slide culture method in detail and its advantages.

Brief Essays

(2x10=20)

3. Laboratory diagnosis of Dermatophyte infection
4. Enumerate Arboviruses prevalent in India. Describe the pathogenesis and laboratory diagnosis of any one of them.

Short Answers

(6x5=30)

5. Laboratory diagnosis of rubella
6. Virus cultivation using embryonated egg
7. Post exposure prophylaxis of rabies
8. Histoplasmosis
9. Laboratory diagnosis of Candidiasis
10. Pulmonary aspergillosis

Comment on

(10x2=20)

11. Name two malignancies associated with Epstein-Barr virus
12. Hepatitis B vaccine
13. Antigenic shift in influenza viruses
14. Give four examples of viruses causing hemorrhagic fever
15. Enumerate four paramyxoviruses
16. Name two opportunistic fungal infections in HIV-AIDS
17. Name two culture media that helps in the species identification of Candida
18. Diagnosis of cryptococcal meningitis by microscopy
19. Name four fungi causing mycetoma
20. Name two dematiaceous fungi.
