

2016 Scheme

QP Code: 413019

Reg. No.....

Fourth Year B.Sc. Medical Microbiology Degree Regular/Supplementary Examinations January 2026

Paper XII - Clinical Microbiology

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. List and classify the etiological agents causing meningitis. Describe in detail the laboratory diagnosis of meningitis.
2. Classify laboratory biosafety levels and hazard/risk groups. Describe in detail the classification and functioning of laboratory biosafety cabinets.

Brief Essays

(2x10=20)

3. Describe the recent updates in the laboratory diagnosis of infective endocarditis.
4. Enumerate and describe in detail the steps involved in investigation of outbreaks.

Short Answers

(6x5=30)

5. Westgard rules in Laboratory Internal quality control.
6. Kass concept and its modifications.
7. Chromoblastomycosis.
8. Microbiological testing of water.
9. Isothermal amplification techniques and its advantages.
10. Syndromic evaluation and laboratory diagnosis of genital ulcers.

Comment on

(10x2=20)

11. Quorum sensing and its clinical significance.
12. Digital PCR.
13. Enterohaemorrhagic *E.coli*.
14. Methods to detect colistin resistance.
15. Halophilic vibrios.
16. Diagnosis of *Helicobacter pylori* infection.
17. Parasitic CNS infections.
18. Viral haemorrhagic fevers in India.
19. Rabies vaccines.
20. Epidemiology of Nipah virus in India.
