

2010 Scheme

Q.P. Code: 205001

Reg. No.:

Second Professional MBBS Degree Supplementary Examinations March 2025

Microbiology - Paper I

Time: 2 Hours

Total Marks: 40

- 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

Essay:

(10)

1. A two-year-old child was brought to casualty with high grade fever, vomiting and drowsiness. On examination, the child had neck rigidity and other signs of meningeal irritation. CSF examination was suggestive of acute bacterial meningitis
 - a) List the bacteria causing acute bacterial meningitis
 - b) Describe the pathogenesis of pneumococcal meningitis
 - c) Describe the laboratory diagnosis of pneumococcal meningitis
 - d) Discuss the prevention of pneumococcal meningitis

(3+2+3+2)

Short essay:

(2x5=10)

2. Autoclave
3. Monoclonal antibody and its application

Short notes:

(10x2=20)

4. List role of complement in health and disease
5. Define Selective media with two examples
6. Clinical significance of IgM
7. Halophilic Vibrios
8. Define Pandemic and give two examples
9. Name FOUR antigen- antibody reactions
10. Name two horizontal gene transfer method in bacteria
11. CD4⁺ T lymphocytes
12. Koch's postulates
13. Bacterial flagella
