

M.D. DEGREE EXAMINATION
BRANCH IV – MICROBIOLOGY
PAPER II – SYSTEMATIC BACTERIOLOGY

Q.P. Code: 202015

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. Define aseptic meningitis. What are the bacterial causes of aseptic meningitis? Write in detail about the laboratory diagnosis of neurosyphilis.
2. Enumerate the obligate intracellular nonculturable bacteria. Discuss the laboratory diagnosis of Q fever. Add a note on methods to check the quality of milk.

II. Short notes:

(10 x 5 = 50)

1. Fifth generation cephalosporins.
2. ESBL detection methods.
3. Community acquired pneumonia.
4. Tests used in questionable coagulase reaction by *Staphylococcus aureus*.
5. Specific diagnostic methods of anaerobic infections.
6. Detection of *Salmonella* carriers.
7. Ophthalmia neonatorum.
8. Cell lines in bacterial identification.
9. Vaccine associated adverse reactions.
10. UPEC.

III. Reasoning Out:

(4 x 5 = 20)

1. Cystic fibrosis patients are at high risk with *Pseudomonas* infections.
2. Difficulties in the identification of non fermentors.
3. Reasons for resurgence of diphtheria.
4. Rapid polymyxin NP test has got a role in diagnostic microbiology.
