

2019 Scheme

Reg. no.:

Q.P. Code: 216001

Second Professional MBBS Degree Supplementary Examinations

June 2024

Microbiology - Paper II

Total Marks: 100

Time: 3 Hours

- 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

(2x15=30)

Long Essays

1. A 11-year-old girl, presented with history of agitation, delirium, abnormal behavior, hallucinations, difficulty in swallowing liquids and fear of water. Her parents reported that she was bitten by a stray dog on her right leg two months prior to presentation for which she had received only oral antibiotics and injection tetanus toxoid.
 - a) What is your clinical diagnosis and name the causative agent.
 - b) Draw a neat and labelled diagram of the causative agent.
 - c) Describe the pathogenesis.
 - d) Discuss the laboratory diagnosis in detail.
 - e) Add a note on the prophylactic measures available for this disease. (2+2+3+4+4)
2. A 40-year-old male presented to pulmonary medicine outpatient department with history of productive cough of more than 3 weeks duration, evening rise of temperature and loss of weight. Microscopic examination of sputum showed acid fast bacilli.
 - a) What is the most probable clinical diagnosis
 - b) Name the etiological agent
 - c) Discuss the pathogenesis of the disease
 - d) Describe the lab diagnosis in detail
 - e) Add a note on the drug resistance seen in this organism
 - f) Name the national programme for this disease (1+1+3+5+4+1)

(5x8=40)

Short essays

3. Describe the etiological agents, clinical types and laboratory diagnosis of dermatophytes.
4. Describe the laboratory diagnosis and prophylaxis of tetanus
5. Discuss the pathogenesis and laboratory diagnosis of diphtheria
6. Describe the pathogenesis, laboratory diagnosis and prophylaxis of poliomyelitis
7. Free living amoebae

(PTO)

(5x4=20)

Short answers

8. Prions
9. Antigenic variations in influenza virus
10. A CSF sample was received in microbiology lab without requisition form. How will you manage this situation
11. Standard tests for syphilis
12. Laboratory diagnosis of mycetoma

(10x1=10)

Objective type questions

13. Name TWO oncogenic DNA viruses
14. Name ONE parasite affecting lungs
15. Name TWO fungi causing otomycosis
16. Name TWO etiological agents of non-gonococcal urethritis
17. Name TWO etiological agents causing opportunistic mycoses
18. Name TWO zoonotic infections
19. Name TWO bacterial agents causing a typical pneumonia
20. Name the causative agent and vector of plague
21. Name TWO bacteria causing neonatal meningitis
22. Name TWO viruses causing congenital infections
