

**MBBS PHASE – II EXAMINATION**

[Time : 3 Hours]

[Max. Marks: 80]

**MICROBIOLOGY – PAPER – I****QP CODE: 2013**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write question number in left side of margin

**Long Essay: (Answer to be started on fresh page only)****2 X 10 = 20**

1. An IV drug abuser develops fever with chills, myalgia, cardiac murmur. Gram positive cocci in clusters was isolated from Blood culture. Describe pathogenesis and laboratory diagnosis of endocarditis in an IV drug abuser. (4+6)
2. Mother of a child brings small white worms measuring 0.8-1 cm from the child's undergarments. The child has perianal itching worse at night. What would be the causative agent? Describe the life cycle, pathogenesis and laboratory diagnosis of this condition. (1+2+2+5)

**Short Essay: (Answer to be started on fresh page only)****6 X 5 = 30**

3. Explain post exposure prophylaxis against Rabies
4. Describe in brief transfer factor.
5. A newborn baby of 2 days old presented with symptoms of classical congenital rubella syndrome. Write the source of infection and describe the mode of transmission. Name the other pathogens transmitted by this route. (1+1+3)
6. Define enrichment media. Give examples.
7. Describe sequestered antigen theory.
8. Dermatophytosis.

**Short Answer: (Leave three lines gap between the answers)****10 X 3 = 30**

9. Sterilization of Operation theatre.
10. Classify T-lymphocytes.
11. Hepatitis B virus vaccine
12. Define Prion.
13. Name the four malarial parasites
14. DEC provocative test
15. Name three live attenuated vaccines
16. List the components of standard precautions
17. Oral thrush
18. Name 3 viruses causing diarrhoea

Feb 2024

**BLDE (DEEMED TO BE UNIVERSITY)**  
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Write question number in middle of the paper

**Long Essay: (Answer to be started on fresh page only)      2 X 10 = 20**

1. A 28-year-old male, was admitted to the hospital with complaints of low-grade fever, loss of weight and appetite and chronic cough with expectoration for past 6 months. Sputum examination revealed long, slender and beaded acid-fast bacilli.

- a) What is your provisional diagnosis?
- b) Describe the pathogenesis of this condition.
- c) Write the laboratory diagnosis in detail.
- d) Mention briefly about drug resistance seen with this etiological agent. (1+3+4+2)

2. After 4–5 days following a bullet injury, a person developed trismus followed by muscle pain and stiffness, back pain, and difficulty in swallowing. Excised tissue bits from the necrotic depths of the wound revealed gram-positive bacilli.

- a) What is the probable diagnosis of this clinical condition?
- b) Describe in detail the pathogenesis and laboratory diagnosis of this condition.
- c) Add a note on prevention of this condition. (2+2+4+2)

**Short Essay: (Answer to be started on fresh page only)      6 X 5 = 30**

3. Describe the pathogenesis and laboratory diagnosis of Diphtheria.

4. Laboratory diagnosis of Urinary tract infection

5. Lymphogranuloma Venereum

6. A microbiologist calls up and informs you that “India Ink staining” of a certain patient’s CSF sample is positive.

- a) What is the probable diagnosis?
- b) Describe the pathogenesis & the other laboratory tests done for this disease. (1+2+2)

7. Pathogenesis and laboratory diagnosis of anthrax

8. Cerebral malaria.

**Short Answer: (Leave three lines gap between the answers)      10 X 3 = 30**

9. Bacterial vaginosis

10. Post exposure prophylaxis against Rabies

11. Pulse polio programme

12. Define standard precautions. List any 2 components of standard precautions

13. Name three encephalitogenic arboviruses

14. Rat bite fever

15. Name 3 fungi causing Zygomycosis

16. Loeffler’s syndrome

17. Name three Oncogenic RNA viruses

18. Enumerate the categories of biomedical waste with suitable examples