

April 2024

BLDE (DEEMED TO BE UNIVERSITY)
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. A man developed abdominal cramps, tenesmus and increased frequency of passing stools since 2 days. Stool microscopy showed many RBCs, pus cells and motile trophozoites.

(A) Identify the clinical condition and the pathogen

(B) Describe pathogenesis and clinical features

(C) Enumerate complications

(D) Describe laboratory diagnosis

(2+3+1+4)

2. A 7-year-old girl has fever since 5 days. She had pain and swelling in her left elbow since 3 days, and developed pain in the right knee since yesterday. She had fever and sore throat 3 weeks back. Murmur was noted on auscultation.

(A) Diagnose the clinical condition and justify

(B) Describe pathogenesis

(C) Describe laboratory diagnosis

(2+4+4)

Short Essay: (Answer to be started on fresh page only)

6 X 5 = 30

3. Innate immunity.

4. Bacterial food poisoning.

5. A laboratory worker got needle stick injury while collecting the specimen of blood from patient. Define the type of infection. Name the infections expected to be transmitted to the laboratory worker.

(3+2)

6. Laboratory diagnosis of Hepatitis B virus infection

7. An 11-year-old boy presents with complaints of sudden onset of sneezing, congestion, coughing, itchy watery eyes and itchy nose. He gives history of similar episodes following contact with grass pollen. Name the type of reaction and write its mechanism.

(1+4)

8. Dermatophytes

Short Answer: (Leave three lines gap between the answers)

10 X 3 = 30

9. Selective media.

10. MMR vaccine.

11. Black water fever.

12. Helicobacter pylori

13. Principle of autoclave

14. Alternate pathway of complement

15. Demonstration of bacterial capsule

16. Draw labelled diagram of ovum of Hymenolepis nana

17. Tinea versicolor

18. DEC provocative test

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MICROBIOLOGY – PAPER – II
QP CODE: 2014

Your answer should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.
Each answer should be written on new page only
Write question number in middle of the paper

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

1. A 7-year-old boy is brought to hospital with symptoms of high fever, headache & decreased consciousness for 5 days. On examination there is neck stiffness and papilledema. CSF sample was sent to laboratory for diagnosis. Microscopy showed Gram negative diplococci under the background of pus cells.

- What is the clinical diagnosis & probable etiological agent?
- What are the other organisms causing the condition in this age group?
- Describe the laboratory diagnosis of condition.
- Add a note on prevention of infection by this etiological agent. (2+2+4+2)

2. A 35-year-old man presented to Dermatology OPD with painless, hard, ulcerative lesions over genitalia. History revealed instances of unprotected sexual contact with multiple partners. Microscopic study of the exudate revealed spiral shaped bacteria.

- Name the clinical condition and the etiological agent.
- Write in brief the pathogenesis
- Describe the laboratory diagnosis of this infection.
- Name two complications of this disease. (2+3+4+1)

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

3. Laboratory diagnosis of urinary tract infection.

4. After 3–5 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.

- What is the probable diagnosis of this clinical condition?
- Describe the laboratory diagnosis of this condition.
- Add a note on prevention of this condition (1+3+1)

5. Describe the laboratory diagnosis of pulmonary tuberculosis

6. Mucormycosis

7. Ventilator associated pneumonia.

8. Weil's disease

P.T.O

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

9. Name three prion diseases
10. List the 6 vector borne diseases targeted by the national Vector Borne Disease Control Program
11. Soft sore
12. Trichomoniasis
13. Name three dimorphic fungi affecting lungs
14. List any six viruses causing encephalitis
15. Enumerate the five moments of hand hygiene
16. Enlist the categories of biomedical waste with suitable examples
17. Name three Oncogenic RNA viruses
18. Antigenic drift and shift