

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 No. in the middle of margin.

Long Essay: (Answers to be started on fresh page only)

2x10=20

1. A 30 year old male presents with complaints of profuse watery diarrhea for the past 12 hours. He also complained about muscle cramps and weakness. He had consumed locally prepared street food and water the previous day. The stool collected has a rice water type of appearance. Microscopic examination of sample revealed 'comma shaped' bacilli with darting type of motility. (2+ 4+4)
 - a. What is your clinical diagnosis and likely etiological agent?
 - b. Describe virulence factors and pathogenesis of this condition
 - c. Describe laboratory diagnosis of this condition
2. A 28 year old man presented to OPD with complains of low grade fever, chronic diarrhea and significant weight loss. On examination he appears cachectic and has generalized lymphadenopathy. He gives history of multiple sexual encounters in the past. He tested positive for HIV antibodies and his CD4 cell count 180 cells/mm³ (4+2+2+2)
 - a. Describe the pathogenesis and detailed laboratory diagnosis for this condition
 - b. What is the NACO testing strategy applicable in this case? Outline the algorithm.
 - c. List the likely opportunistic infections in this patient.
 - d. How will you approach post test counseling for this patient?

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

6x5=30

3. Describe the bacterial growth curve. Discuss growth requirements of bacteria.
4. Discuss the pathogenesis and laboratory diagnosis of non suppurative complication of *Streptococcus pyogenes* infections
5. A boy developed generalized itchy rashes and difficulty in breathing 30 minutes after consuming fish. He had thread rapid pulse, low blood pressure and ronchi in bilateral lung fields. Describe pathogenesis and principles of treatment of this condition. (3+2)
6. A 50 year old man presented with fever, jaundice & abdominal tenderness localised to right upper quadrant. CT scan of abdomen revealed liver abscess. Wet mount examination of aspirated liver abscess showed trophozoites of 5–20 µm, actively motile, with finger like pseudopodia. (1+4)
 - a. What is the etiological diagnosis?
 - b. Describe the pathogenesis, laboratory diagnosis of this condition?
7. Describe clinical types and laboratory diagnosis of dermatophytosis.
8. Describe principles of effective communication in the context of sample collection for laboratory investigations and release of results

P.T.O

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

10x3=30

9. Contributions of Louis Pasteur in the field of microbiology.
10. Name 3 methods of antibiotic sensitivity testing methods.
11. Define sterilization. Name 4 methods of sterilization using moist heat
12. List differences between active immunity and passive immunity.
13. Define Chemiluminescence immunoassay (CLIA) and its applications
14. Mentions the indication for Hepatitis B vaccine and its schedule.
15. Why malaria caused by *plasmodium falciparum* is associated with more complications.
16. Differentiate amoebic and bacillary dysentery.
17. Lepromin test.
18. Etiopathogenesis of Actinomycosis

BLDE (DEEMED TO BE UNIVERSITY)
MBBS PHASE - II EXAMINATION

[Time: 3 Hours]

[Max. Marks: 80]

MICROBIOLOGY – PAPER - II
QP CODE: 2014

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 No. in the middle of margin.

Long Essay: (Answers to be started on fresh page only)

2x10=20

1. A 7 year old boy presented to the OPD with history of fever, pain in the throat and difficulty in swallowing. On examination tonsils were covered with whitish membrane, on enquiry with his mother reveals irregular immunization.
 - a. What is the provisional diagnosis and causative agent
 - b. Add a note on Pathogenesis and Lab diagnosis.
 - c. Add a note on Treatment and Prevention.
2. A 35 year old male truck driver presented to OPD with history of fever, weight loss, recurrent oral white patches and chronic diarrhoea since 4 weeks. He had history of exposure to commercial sex worker.
 - a. What is the provisional diagnosis and causative agent
 - b. Add a note on Pathogenesis and Lab diagnosis.
 - c. Add a note on Treatment and Prevention.

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

6 x 5=30

3. Add a note on segregation and management of Bio-medical waste.
4. Discuss in detail the lab diagnosis of Bacterial meningitis.
5. Discuss the laboratory diagnosis of pulmonary tuberculosis.
6. Discuss in detail about lab diagnosis of Syphilis.
7. An elderly patient with knee osteo arthritis refuses surgery wants only pain killers. How you handle this patient.
8. Ventilator associated pneumonia.

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

10x3=30

9. Rat bite fever.
10. Name 3 vector borne infections.
11. Name 3 organisms causing CAUTI.
12. Pulse polio programme.
13. Trichomonas vaginalis.
14. Thick and Thin smears for malaria.
15. Name 3 fungi affecting lungs.
16. Primary Amoebic meningoencephalitis
17. Lab diagnosis of Dengue fever.
18. Standard precautions