March - 2023

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

[Time: 3 Hours]

[Max. Marks: 80]

MICROBIOLOGY - PAPER - I OP 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)

 $2 \times 10 = 20$

- 1. A man aged 52 presents with progressive painless diffuse swelling of left lower limb over 2 years. On examination it is non-pitting type and extends from toes till knee joint. There are no local signs of inflammation. Ultrasonography revealed dilated and tortuous lymphatics of the affected limb.
 - (A) Identify the clinical condition and probable causative agents
 - (B) Describe pathogenesis
 - (C) Describe laboratory diagnosis

(2+4+4)

2. Classify organisms causing enteric fever. Describe the pathogenesis and laboratory diagnosis of Enteric fever. (2+3+5)

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

 $6 \times 5 = 30$

- 3. Enumerate the organisms causing Gas gangrene. Write the laboratory diagnosis in brief. (2+3)
- 4. Laboratory diagnosis of Falciparum malaria.
- 5. Madura foot
- 6. 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)
- 7. Bacterial endocarditis
- 8. Laboratory diagnosis of HIV infection

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

 $10 \times 3 = 30$

- 9. Applications of sterilization by Autoclaving.
- 10. Immunological tolerance
- 11. Ground itch
- 12. Components of Standard precautions
- 13. Oral Polio vaccine
- 14. Plasmid.
- 15. Name three serological markers of sepsis
- 16. Draw labelled diagram of ovum of Tape worm
- 17. Dermatophytid reaction
- 18. Define Monoclonal antibodies

March - 2023

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

[Time: 3 Hours]

[Max. Marks: 80]

MICROBIOLOGY – PAPER – II OP 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) $2 \times 10 = 20$

- 1. A child aged 7 years with high grade fever, toxic, pain in the throat, inability to swallow was brought to the casualty. On examination, a white patch was found on the fauces, which started bleeding when touched.
 - a) What is the provisional diagnosis?
 - b) Describe the pathogenesis of above infection
 - c) How will you establish the above diagnosis in the laboratory?
 - d) Describe in detail the prevention of this disease (1+3+4+2)
- 2. A 20-year-old male is brought to OPD with symptoms of agitation, cooing & excessive salivation. He is afraid to drink water that is offered. Answer the following questions
 - a) What is the likely etiological diagnosis?
 - b) Describe the pathogenesis of this disease.
 - c) How will you diagnose the aetiology in the laboratory?
 - d) Add a note on its prevention

(1+3+3+3)

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

- 3. Laboratory diagnosis of pulmonary tuberculosis
- 4. Lymphogranuloma venerum
- 5. A 28-year-old female was admitted with high grade fever, vomiting, flank pain with increased frequency of micturition for the past 3 days.
 - a) What is the clinical diagnosis
 - b) Write the laboratory diagnosis of this infection.

(1+4)

- 6. Describe the clinical features and laboratory diagnosis of anthrax.
- 7. A 8-year-old child is diagnosed with meningitis. CSF microscopy revealed Gram negative diplococci. Answer the following questions
 - a) What is the etiological diagnosis?
 - b) What are the other laboratory tests that can be done to confirm etiological diagnosis
 - c) Add a note on prevention of Meningitis by this etiological agent

(1+2+2)

8. Pulmonary Aspergillosis

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

- 9. Components of standard precautions
- 10. Name 6 zoonotic infections caused by parasites
- 11. Vaginal thrush
- 12. Name three arboviruses causing encephalitis.
- 13. SARS Cov 2 Vaccine
- 14. List three free living amoeba and disease caused by them
- 15. Antigenic drift and shift
- 16. Prion diseases in humans
- 17. Loeffler's syndrome
- 18. Define arboviruses. Give 2 examples