

April-2022

**BLDE (DEEMED TO BE UNIVERSITY)  
POST GRADUATE DEGREE EXAMINATION**

[Time: 3 Hours]

[Max.Marks: 100]

**MD MICROBIOLOGY – PAPER – I  
QP CODE: 5017**

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 left side of margin.

**Long Essay**

**(2x20=40 Marks)**

1. Discuss various clinical laboratory methods for detection of Antigens and antibodies.
2. Discuss various Biosafety levels in the Microbiology laboratories with applications.

**Short Essay**

**(6x10=60 Marks)**

3. Write a note on mucosal antibody responses.
4. Describe method of preparation of Monoclonal antibodies and their uses.
5. Write in detail about major Histocompatibility HLA Complex.
6. Add a note on plasmid analysis.
7. Role of Cold chain in the Medicine.
8. Quality control in the Laboratory.

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[Max. Marks: 100]

**MD MICROBIOLOGY – PAPER – II**

**QP CODE: 5018**

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 No. in left side of margin.

**Long Essay**

**(2x20=40 Marks)**

1. Define aseptic meningitis. What are the bacterial causes of aseptic meningitis? Write in detail about the laboratory diagnosis of neurosyphilis.
2. Enumerate the etiologic agents of gas gangrene. Describe in detail the pathogenesis and laboratory diagnosis of gas gangrene

**Short Essay**

**(6x10=60 Marks)**

3. Non-cultural methods for Bacterial identification.
4. List the common causes of atypical pneumonia and describe laboratory approach to its diagnosis
5. ESKAPE group of pathogens.
6. Toxins of clostridium tetani.
7. Drug resistance in pseudomonas
8. Vancomycin Resistant Enterococcus

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**MD MICROBIOLOGY – PAPER – III  
QP CODE: 5019**

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 left side of margi

**Long Essay**

**(2x20=40 Marks)**

1. A 18 -year-old male presented with symptom of persistently occipital headache, fever, myalgia, and fatigue. The patient has a history of going swimming in a lake 5 days ago. On examination, signs of meningeal irritation were present. CSF examination for microscopy was sent.
  - a) What is the etiological agent based on this condition 2 marks
  - b) Enumerate parasite causing Meningitis 2 marks
  - c) Discuss pathogenesis & laboratory diagnosis 8 marks
  - d) What is the treatment plan & prevention 8 marks
  
2. A 8-year-old child was brought to OPD with history of repeated episodes of nocturnal enuresis and itching over the perianal region. Perianal swab was collected and sent for direct microscopy.
  - a) What is the etiological agent based on this condition 2 marks
  - b) Enumerate parasite causing Autoinfection 4 marks
  - c) Discuss pathogenesis & laboratory diagnosis 8 marks
  - d) What is the treatment plan & prevention 6 marks

**Short Essay**

**(6x10=60 Marks)**

3. National health programme for the prevention and control of parasitic diseases
4. Discuss the various modalities of reproduction in protozoa
5. Discuss the diagnosis and management of invasive amoebiasis
6. Discuss opportunistic intestinal parasitic infections.
7. Xenodiagnosis
8. Intradermal skin test diagnose parasitic infections

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[Time: 3 Hours]

[Max. Marks: 100]

**MD MICROBIOLOGY – PAPER – IV**

**QP CODE: 5020**

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 left side of margin.

**Long Essay**

**(2x20=40 Marks)**

1. A lady was operated for benign tumour of breast. How will you manage segregation of generated bio-wastes such as needles, scalpels, used syringes, catheter, disposable gloves, empty medicine vials and discarded tissue in operation theatre? Write about transport, treatment and disposal options for above bio-wastes. (8+4+4+4)
2. Name the various molecular methods used in diagnostic microbiology. Describe in detail polymerase chain reaction (PCR). Comment on different types of PCR used in diagnostic microbiology in brief. (2+10+8)

**Short Essay**

**(6x10=60 Marks)**

3. Write a note on normal flora of upper and lower respiratory tract. (5+5)
4. What are two antimicrobial stewardship approaches or strategies? Describe them. (2+4+4)
5. Discuss edible vaccines. (10)
6. Describe the methods used for diagnosis of food poisoning. (10)
7. Enumerate the parasitic causes of emerging infectious diseases. Describe morphology, lifecycle, clinical course, laboratory diagnosis and management of cryptosporidiosis. (2+2+2+2+2)
8. Write a note on personal protective equipment. (10)