

July 2023

**BLDE (DEEMED TO BE UNIVERSITY)**

**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time: 3 Hours]

[Max.Marks:80]

**II SEMESTER**

**PAPER – I (General Microbiology & Immunology)**

**QP CODE: 9271**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X3 = 30 Marks**

1. Enumerate Antigen-Antibody reactions in vitro. Describe the precipitation reaction in detail.  
(3+7)
2. Define and classify infection. Discuss in detail about factors contributing to microbial pathogenicity.  
(1+4+5)
3. What is Sterilization? Mention different methods of sterilization. Add a note on the principle and working of hot air oven.  
(1+2+2+5)

**Short Essays:**

**5 X 10 = 50 Marks**

4. ELISA and its uses
5. Bacterial growth curve
6. Type II hypersensitivity reaction
7. Koch's Postulates
8. IgM antibody
9. Principle and uses of fluorescent microscope
10. Transport media
11. Bacterial spore
12. Differences between endotoxins and exotoxins
13. Principles of Gram staining.

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**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time: 3 Hours]

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**II SEMESTER**

**PAPER – II (Systemic Bacteriology - I)**

**QP CODE: 9272**

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

**Long Questions**

**10X3 = 30 Marks**

1. Describe the pathogenesis and laboratory diagnosis of tetanus. Add a note on prophylactic measures (3+4+3)
2. List the organisms causing pyogenic meningitis and describe the laboratory diagnosis of pneumococcal meningitis. Add a note on Pneumococcal vaccine (3+5+2)
3. List the organisms causing sexually transmitted infections and describe the laboratory diagnosis of N.gonorrhoea (3+7)

**Short Essays:**

**5 X 10 = 50 Marks**

4. Laboratory diagnosis of pulmonary tuberculosis
5. MRSA
6. Diseases caused by streptococci
7. Gas gangrene
8. Laboratory diagnosis of *Corynebacterium diphtheriae*
9. *Clostridium difficile*
10. Laboratory diagnosis of anthrax
11. Actinomycosis
12. Coagulase Negative Staphylococci
13. Atypical mycobacteria