

**BLDE (DEEMED TO BE UNIVERSITY)****M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time: 3 Hours]

[Max.Marks:80]

**III SEMESTER****PAPER – I (General Microbiology)****QP CODE: 9071**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions****10 X 3 = 30 Marks**

1. Explain the growth and multiplication of Bacteria with Bacterial growth curve.
2. Define sterilization. Classify sterilizing agents and explain the principle of Autoclave.
3. Enumerate the methods of transmission of genetic material and explain conjugation with diagrams.

**Short Essays:****5 X 10 = 50 Marks**

4. Bacterial capsule
5. Contributions of Louis Pasteur
6. Anaerobic culture methods
7. Fluorescent microscope
8. Hot-air oven
9. Gaseous sterilization
10. Transposons
11. Gram stain- uses and limitations
12. Catalase and Oxidase test
13. Classify Media. Explain Transport media

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**III SEMESTER**  
**PAPER – II (Immunology)**  
**QP CODE: 9072**

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

**Long Questions**

**10 X 3 = 30 Marks**

1. Define Antigen. Describe the various determinants of Antigenicity.
2. Principle, types and applications of ELISA in clinical microbiology.
3. Classify hypersensitivity reactions with examples. Describe type IV hypersensitivity reaction in detail.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Classical complement Pathway
5. Monoclonal antibodies
6. Cellular immunodeficiencies
7. Mechanisms of autoimmunity.
8. IgA Antibody
9. Graft verses Host reaction
10. Interleukins
11. HLA typing and applications.
12. Cell mediated immunity
13. Artificial active immunity