

**M.Sc (Non Clinical) DEGREE EXAMINATION**

**FINAL**

**Branch V –MICROBIOLOGY**

**Paper I – GENERAL BACTERIOLOGY AND IMMUNOLOGY**

*Q.P. Code : 282976*

**Time : Three hours**

**Maximum : 100 marks**

**Answer All questions.**

**I. Essays:**

**(2 X 20=40)**

1. Discuss in detail the structure of bacterial cell wall of both gram positive and gram negative bacteria. Write a note on their applied aspects.
2. Discuss in detail the different mechanisms employed in transmission of genetic material in bacteria. Write a note on genetic mechanisms of drug resistance.

**II. Write Short Notes on :**

**(10X 6 = 60)**

1. Tyndallization.
2. Bacterial flagella.
3. IMViC tests.
4. Immunoglobulin M.
5. Endotoxins.
6. Anaerobic culture methods.
7. Radio immunoassay.
8. Cytokines.
9. Graft versus host reaction.
10. Coomb's test.