

(LD 117)

OCTOBER 2013

Sub. Code: 2014

**M.D. DEGREE EXAMINATION
BRANCH IV – MICROBIOLOGY
PAPER – I – GENERAL MICROBIOLOGY AND IMMUNOLOGY
Q.P. Code : 202014**

Time: Three Hours

Maximum: 100 marks

I. Essay: (2X10=20)

1. Classify methods of sterilization. Discuss in detail physical methods of sterilization that can be used in tertiary care centre.
2. Discuss in detail mechanism by which bacteria evade immune response.

II. Short Questions: (8X5=40)

1. Passive immunity.
2. Contributions of Joseph Lister.
3. Coomb's test.
4. Major histocompatibility complex.
5. Phase contrast microscopy.
6. Monoclonal antibodies.
7. Type I hypersensitivity.
8. Beta-lactam antibiotics.

III. Reasoning Out: (4X5=20)

1. Loefflers' serum slope should not be sterilized by autoclaving.
2. Staphylococcus aureus produces localized infections.
3. Capsular serotyping of Streptococcus pneumoniae is essential.
4. Obligate anaerobes cannot grow in presence of oxygen.

IV. Very Short Answers: (10X2=20)

1. Rheumatoid arthritis.
2. Plasmids.
3. Immunochromatographic test.
4. Toxoid vaccines.
5. E-test.
6. Anaerobic culture methods.
7. Islam's media
8. Molecular beacon.
9. Universal precautions.
10. Motility in bacteria.
