

May 2018

**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. Explain the genetic mechanisms of drug resistance in bacteria. Mention the molecular methods to detect the drug resistance in bacteria.
2. Describe the interaction of cells & cytokines in cell mediated immunity. Write about methods of detection of cell mediated immunity.

**Short essay**

**(6x10=60 Marks)**

3. Biomedical waste management.
4. Automated culture methods.
5. Methods for maintaining anaerobiosis.
6. Virulence factors of the bacteria.
7. Immunological tolerance.
8. Principle and types of Enzyme Immuno Assays.

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[Time: 3 Hours]

[Max.Marks: 100]

**MD MICROBIOLOGY – PAPER - II**

**QP CODE: 5018**

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. Enumerate the bacteria causing meningitis. Explain the pathogenicity and laboratory diagnosis of meningococcal meningitis.
2. Write indetail about pathogenesis, lab diagnosis and prophylaxis of plague.

**Short essay**

**(6x10=60 Marks)**

3. Molecular diagnostic methods for tuberculosis.
4. Pathogenesis and laboratory diagnostic methods to detect infection caused by clostridium difficile.
5. Toxin mediated staphylococcal diseases.
6. Leptospirosis.
7. Chlamydia trachomatis.
8. Diptheroids.

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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 margin.

**Long essay**

**(2x20=40 Marks)**

1. Classify medically important fungi and write in detail the laboratory diagnosis of fungal infections.
2. Discuss in detail the principle, methodology, merits and demerits of RT-PCR.

**Short essay**

**(6x10=60 Marks)**

3. Laboratory diagnosis of Dengue.
4. Viral inclusion bodies.
5. Kyasanur forest disease (KFD)
6. Chromoblastomycosis
7. Pneumocystis jirovecii
8. Phaeoid fungi.

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[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. Discuss the life cycle, pathogenecity and laboratory diagnosis of *Toxoplasma gondii*.
2. Describe the larval forms of cyclophyllidean cestodes. Write about the laboratory diagnosis and treatment of hydatid cyst.

**Short essay**

**(6x10=60 Marks)**

3. Helminthic egg counting techniques
4. Occult filariasis.
5. Cutaneous larva migrans.
6. *Cryptosporidium parvum*
7. *Trichinella spiralis*
8. Laboratory diagnosis of malaria.