

**BLDE 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.

**LONG ESSAY**

**(2X20=40 Marks)**

1. Describe various mechanisms of drug resistance in bacteria. Add a note on emerging bacterial drug resistance in India. (10+10)
2. Describe Antigen-Antibody reactions and discuss in detail the role of Agglutination reactions in diagnosis of diseases. (10+10)

**SHORT ESSAY**

**(6X10=60 Marks)**

3. Describe diseases caused due to complement deficiency
4. Sterilization of operation theatres
5. Incomplete antibodies
6. Describe bacterial antagonism
7. Write the applications of monoclonal antibodies in Microbiology
8. Universal safety precautions

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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.

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**LONG ESSAY**

**(2X20=40 Marks)**

1. Discuss epidemiology, virulence factors, pathogenesis and laboratory diagnosis of Neisseria gonorrhoea infection. Add a note on international recommendation of methods for typing of Neisseria gonorrhoea isolates. (16+4)
2. Classify Clostridia which are of importance in causing human infections. Describe the pathogenesis clinical features and laboratory diagnosis of gas gangrene. (5+15)

**SHORT ESSAY**

**(6X10=60 Marks)**

3. Genus Arcobacter.
4. Antibiotic induced biofilm formation
5. Lymphogranuloma venereum
6. Melioidosis vaccines.
7. Non typhoidal Salmonellosis.
8. ETEC (Enterotoxigenic Escherichia coli).

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**MD MICROBIOLOGY – PAPER -III**

**QP CODE : 5019**

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**LONG ESSAY**

**(2X20=40 Marks)**

1. Elaborate on the etiology, pathology, pathogenesis, clinical manifestations and diagnosis of Mycetoma.

2. Describe the morphology, antigenic structure, and pathogenesis of Influenza virus.

Add a note on H1N1 influenza virus, its epidemiology in India and methods used for its diagnosis.

(8+12)

**SHORT ESSAY**

**(6X10=60 Marks)**

3. Measles virus

4. Hepatitis B vaccines

5. Candida albicans

6. Dermatophytosis

7. Histoplasmosis

8. Viruses causing diarrhea

# BLDE UNIVERSITY

## POST GRADUATE DEGREE EXAMINATION

[Time : 3 Hours]

[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.

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#### LONG ESSAY

(2X20=40 Marks)

1. Enumerate the parasites found in an immune compromised host. Describe the life cycle and laboratory diagnosis of *Strongyloides stercoralis*. (4+4+8)
2. Enlist the parasites Causing CNS infections. Describe the morphology life cycle and laboratory diagnosis of *Toxoplasma gondii*. (3+4+7+6)

#### SHORT ESSAY

(6X10=60 Marks)

3. Discuss cutaneous Leishmaniasis
4. Discuss *Acanthamoeba* infections
5. Describe Malarial vaccines
6. *Schistosoma japonicum*
7. Describe laboratory diagnosis of filariasis
8. *Trichomonas vaginalis*