

MANIPAL UNIVERSITY
SECOND MBBS DEGREE EXAMINATION – MAY 2009
SUBJECT: MICROBIOLOGY - PAPER I (ESSAY)

Friday, May 08, 2009

Time: 10.30 – 13.00 Hrs.

Maximum Marks: 60

✍ **Answer ALL the questions.**

✍ **Draw diagrams and flow charts wherever appropriate.**

1. Define Sterilization and classify methods of Sterilization. Describe the chemical disinfectants used in the hospital settings.

(1+3+4 = 8 marks)

2. Describe the pathogenesis and laboratory diagnosis of Pulmonary Tuberculosis. Add a note on BCG.

(3+4+1 = 8 marks)

3. **Write short notes on:**

3A. Bacterial cell-wall

3B. Anaerobic methods of cultivation

3C. ELISA

3D. Delayed hypersensitivity

3E. Immunoglobulin M

3F. Complement system

(4×6 = 24 marks)

4. **Write briefly on:**

4A. Elek's gel precipitation test

4B. Classification of Streptococci

4C. Diarrhoeagenic E.coli

4D. Antibiotic sensitivity testing in the laboratory

4E. Bacterial food poisoning.

(4×5 = 20 marks)



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SECOND MBBS DEGREE EXAMINATION – MAY 2009

SUBJECT: MICROBIOLOGY - PAPER II (ESSAY)

Saturday, May 09, 2009

Time: 10.30 – 13.00 Hrs.

Maximum Marks: 60

✍ **Answer ALL questions.**

✍ **Draw diagrams and flow charts wherever appropriate.**

1. List out the Arboviral infections commonly seen in India. Describe the pathogenesis, laboratory diagnosis and prevention of Kyasanur Forest Disease.

(2+4+2 = 8 marks)

2. Enumerate pathogenic amoebae. Describe the life cycle of *Entamoeba histolytica*; add a note on the pathogenesis and laboratory diagnosis of intestinal amoebiasis.

(2+2+2+2 = 8 marks)

3. **Write short notes on:**

3A. Antigenic variation in Influenza virus

3B. Antiviral agents

3C. Mycetoma

3D. Teratogenic viruses

3E. Dermatophytes

3F. Toxoplasmosis

(4×6 = 24 marks)

4. **Write briefly on:**

4A. Rhinosporidiosis

4B. Cysticercosis

4C. Immunoprophylaxis of Hepatitis B

4D. Larva migrans

4E. Laboratory diagnostic tests for HIV infection

(4×5 = 20 marks)

