

MANIPAL UNIVERSITY**THIRD YEAR B. Sc. M.L.T. DEGREE EXAMINATION – DECEMBER 2011****SUBJECT: GENERAL BACTERIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY
(NEW REGULATION)**

Monday, December 12, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer the following questions.**

1. Define and classify hypersensitivity. Explain the mechanism of anaphylaxis. (15 marks)

2. Explain the laboratory diagnosis of syphilis. (15 marks)

3. **Write short notes on:**

3A. Autoclave

3B. Bacterial conjugation

3C. Pathogenesis of cholera

3D. Botulism

3E. Laboratory diagnosis of leprosy

(7×5 = 35 marks)

4. **Short notes:**

4A. Koch's postulate

4B. Capnophilic bacteria

4C. Transposones

4D. Biological false positives in standard test for syphilis

4E. Function of T-cells

(3×5 = 15 marks)



MANIPAL UNIVERSITY**THIRD YEAR B. Sc. M.L.T. DEGREE EXAMINATION – DECEMBER 2011****SUBJECT: MYCOLOGY, VIROLOGY AND PARASITOLOGY
(NEW REGULATION)**

Tuesday, December 13, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

Answer ALL Questions. Draw diagrams if necessary.

1. Explain the life cycle and pathogenicity of *Ancylostoma duodenale*. Add a note on its laboratory diagnosis.
(15 marks)
2. Discuss the laboratory diagnosis of viral infections.
(15 marks)
3. **Write detailed notes on the following:**
 - 3A. *Echinococcus granulosus*
 - 3B. *Toxoplasma gondii*
 - 3C. *Aspergillus*
 - 3D. *Ascaris lumbricoides*
 - 3E. Influenza virus
 - 3F. *Trichuris trichiura*
 - 3G. Candidiasis

(5×7 = 35 marks)
4. **Write short notes on the following:**
 - 4A. Piedra
 - 4B. Epstein - Barr virus
 - 4C. *Giardia lamblia*
 - 4D. Mycotoxins
 - 4E. NIH swab

(3×5 = 15 marks)



MANIPAL UNIVERSITY**THIRD YEAR B. Sc. M.L.T. DEGREE EXAMINATION – DECEMBER 2011****SUBJECT: MYCOLOGY AND VIROLOGY
(OLD REGULATION)**

Tuesday, December 13, 2011

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL questions. Draw diagrams if necessary.**

- 1A. Define mycosis. Discuss the cutaneous mycosis and its laboratory diagnosis.
1B. Elaborate the different stages of viral multiplication.

(2×15= 30 marks)

2. Write detailed notes on:

- 2A. Histoplasmosis
2B. Antirabic neural vaccines
2C. LPCB preparation
2D. Influenza virus
2E. Fungal medias
2F. ELISA
2G. Piedras

(5×7 = 35 marks)

3. Write short notes on:

- 3A. Tease mount preparation
3B. Negri bodies
3C. Potato flakes agar
3D. Western blot test for HIV infection
3E. Penicillosis

(3×5 = 15 marks)

