Reg. No.										

MANIPAL UNIVERSITY

THIRD YEAR B. Sc. M.L.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: DIAGNOSTIC BACTERIOLOGY, PARASITOLOGY AND IMMUNOLOGY

Wednesday, December 10, 2008

Time: 10.00-13.00 Hrs. Max. Marks: 80

1. Describe the life cycle, pathogenecity and laboratory diagnosis of Toxoplasma gondii.

(5+4+6 = 15 marks)

2. Classify sterilization. Describe in detail moist heat sterilization above 100° C. Add a note on sterilization controls.

(3+10+2 = 15 marks)

3. Write short essay on:

3A. Describe the laboratory diagnosis of tuberculosis.

3B. Explain the life cycle of malarial parasite.

3C. Discuss the pathogenesis and laboratory diagnosis of Botulism.

3D. Discuss the general properties and infections caused by Salmonellae.

3E. Describe the immunoglobulin structure with a labeled diagram.

3F. Explain the mechanism of Type I hypersensitivity reactions.

3G. Describe the concentration methods employed in the processing of stool samples.

(5×7 = 35 marks)

4. Write short notes on:

4A. Halophilic vibrios.

4B. Atypical mycobacteria.

4C. Trichomoniasis.

4D. Bacterial endospore.

4E. Helper T cells.

(3×5 = 15 marks)

Reg. No. | | | | | | | | | | |

MANIPAL UNIVERSITY

THIRD YEAR B. Sc. M.L.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: MYCOLOGY AND VIROLOGY

Thursday, December 11, 2008

Time: 10.00-13.00 Hrs. Max. Marks: 80

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

1. Discuss the superficial fungal infections and its laboratory diagnosis.

2. Elaborate on viral vaccines.

(15×2 = 30 marks)

3. Write detailed notes on:

3A. Germ tube test
3B. DNA viruses
3C. Sporotrichosis
3D. AIDS
3E. Maintanance of fungal cultures
3F. Herpes simplex virus
3G. Candidosis.

(5×7 = 35 marks)

4. Write Short notes on:

4A. Oppurtunistic fungi
4B. Papova virus
4C. SDA
4D. Cytopathic effect
4E. Mycetomas.

(3×5 = 15 marks)