

MANIPAL UNIVERSITY**SECOND YEAR M. Sc. M.L.T. DEGREE EXAMINATION – DECEMBER 2014****SUBJECT: VIROLOGY AND PARASITOLOGY
(MICROBIOLOGY SPECIALIZATION)**

Wednesday, December 17, 2014

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 70

✍ **Answer the following questions with the help of neat labeled diagrams wherever necessary.**

1. Describe the routes of transmission of viral hepatitis with examples. With the help of a graph discuss the seromarkers of hepatitis B virus infection and explain their diagnostic significance.

(4+8+3 = 15 marks)

2. Explain the life cycle of *Ancylostoma duodenale*. Describe the clinical manifestations and laboratory diagnosis of infections caused by it.

(7+3+5 = 15 marks)

3. **Write briefly on:**

- 3A. Laboratory diagnosis of toxoplasmosis
3B. Pathogenesis of hydatid disease
3C. Replication of an enveloped virus
3D. Antigenic variations in influenza virus
3E. Rotaviral diarrhea

(5 marks × 5 = 25 marks)

4. **Write short notes on:**

- 4A. Pathogenesis of Human papilloma virus infection
4B. QBC test
4C. Neurocysticercosis
4D. MMR vaccine
4E. *Molluscum contagiosum*

(3 marks × 5 = 15 marks)

