

M.Sc. (Part-II) (Zoology) (NEP Pattern) - Semester-III
03MSCZO01 - Paper-I : Parasitology and Immunology

P. Pages : 1

Time : Three Hours



GUG/W/24/16031

Max. Marks : 80

1. Give detail account on *Vibrio cholera* **16**

OR

Write notes on

- a) Life cycle of *Yersinia pestis* **8**
- b) Mode of transmission of H1 N1 viruses **8**

2. Write an essay on life cycle and mode of transmission of *Plasmodium vivax*. **16**

OR

Write notes on

- a) Mode of transmission of *Entamoeba histolytica*. **8**
- b) Life cycle of *Trichinella spiralis*. **8**

3. Structure and functions of primary and secondary lymphoid organs. **16**

OR

Write notes on

- a) Innate immunity **8**
- b) B cells **8**

4. Write an essay on Hypersensitivity reactions. **16**

OR

Write notes on

- a) Properties of cytokines **8**
- b) Immune response to tumor **8**

5. Attempt to the following.

- 1) Mode of transmission of Dengue **4**
- 2) Treatment on *Wuchereria bancrofti* **4**
- 3) Antigen antibody interaction **4**
- 4) ELISA **4**
