

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

P. Pages : 1

Time : Three Hours



GUG/S/25/16031

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labeled diagram wherever necessary.

1. Describe detail on life cycle and mode of transmission of *Yersinia pestis*. **16**

OR

Write notes on-

- a) Infection and treatment of Dengue.
- b) Life cycle and treatment of H1 N1 virus.

2. Give a detail account on life cycle and treatment of *Entamoeba histolytica*. **16**

OR

Write notes on-

- a) Life cycle of *Trichinella*.
- b) Mode of transmission and treatment of Malaria.

3. Write an essay on Adaptive immunity. **16**

OR

Write notes on-

- a) T cell Maturation.
- b) Antigen and antibodies interaction.

4. Describe types and role of tumor antigens response. **16**

OR

Write notes on-

- a) Transplantation rejection.
- b) Autoimmune disease.

5. Attempt the following- **16**

- | | |
|------------------------------|----------------------|
| a) <i>Vibrio cholera</i> | b) Antitoxins |
| c) Secondary Lymphoid organs | d) Cytokine receptor |
