

M.Sc. (Part-II) (Zoology) (CBCS Pattern) Semester-III
PSCZOOT09 - ZOO-IX - Parasitology and Immunology Paper-I

P. Pages : 1

Time : Three Hours



GUG/W/24/11305

Max. Marks : 80

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1. Give detail account on *Vibrio cholera* and *Clostridium Titani*. 16
- OR**
- a) Life cycle of *Yersinia pestis* 8
- b) Mode of transmission of Influenza and H1 N1 viruses. 8
2. Describe in detail Life cycle, mode of transmission, infection and treatment of *Leishmania Donovanii*. 16
- OR**
- a) Mode of transmission of *Trypanosoma cruzi* and *Entamoeba histolytica*. 8
- b) Toxins and antitoxins 8
3. Major Histocompatibility Complex (MHC) – general organization and inheritance of the MHC. 16
- OR**
- a) Regulation of complement system. 8
- b) T cells and B cells 8
4. Write an essay on Hypersensitivity reactions. 16
- OR**
- a) Properties of cytokines 8
- b) Types and roles of tumor antigens. 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) Blood antigens 4
