

Post Graduate Teaching Department of Zoology
An Autonomous Department of
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
M. Sc. Zoology Semester -III (CBCS)
Theory Examination Winter-2022
Name of the Paper: 3T1: Parasitology and Immunology

Time: 3hrs

Maximum Marks: 60

Note: -

1. All the questions are compulsory.
2. All questions carry equal marks.
3. Draw well labelled diagrams and charts wherever necessary.

Q.1 Explain life cycle, mode of transmission and treatment of *Influenza* and H1 N1 viruses. **12**

OR

Write notes on:-

- (a) Life cycle and mode of transmission of *Clostridium tetani*.
- (b) Mode of transmission and treatment of Dengue.

Q.2 Give detail account of life cycle, mode of transmission and infection *Plasmodium*. Add a note on treatment of Malaria. **12**

OR

Write notes on:-

- (a) Life cycle, mode of transmission and treatment of *Trypanosoma*.
- (b) Mode of transmission, infection and treatment of Filariasis.

Q.3 Describe maturation, activation and differentiation of T cell. **12**

OR

Write notes on:-

- (a) Regulation of complement system.
- (b) B cells.

Q.4 Give detail account on transplantation immunology. **12**

OR

Write notes on:-

- (a) Cell mediated cytotoxic responses.
- (b) Organ specific autoimmune disease and treatment.

Q.5: Write in brief on followings: - **12**

- (a) Pathogen of Plague.
- (b) Treatment of trichinosis.
- (c) Lectin pathway.
- (d) RIA and ELISA.