

1019

M.Sc. IV Semester Examination 2020

Subject : Zoology

Paper : II –Biology of Parasitism & Vertebrate Immune System

Max.Marks : 85

Min.Marks: 29

Note: Attempt all questions. Draw well labeled diagrams wherever they required.

Section –‘A’

(Short Answer Type Questions)

1. Attempt any five of the following questions. 3x5=15
- (i) Disadvantages in the parasitic life.
 - (ii) Ecological and phylogenetic response.
 - (iii) Epitopes
 - (iv) Haptens
 - (v) Agglutination
 - (vi) Antibody affinity & avidity.
 - (vii) Delayed type hypersensitivity
 - (viii) NK cells-mechanism of action
 - (ix) Vaccination
 - (x) Active and passive immunization.

Section –‘B’

(Long Answer Question)

2. Explain various effects of parasites on host includes mechanical, nutritional, destruction & toxic in detail. 14x5=70

OR

Explain various models of parasitic invasion. Its includes passive, mechanical, active, contact & transovarial pathways in detail.

Contd...

(2)

3. Write an essay on various cells of immune system with their differentiation.

OR

Explain the following in brief:

- (i) Resistance
- (ii) Innate immunity
- (iii) Antigenicity
- (iv) Immunogenicity

4. Write an essay on T-cell & its role in immunity.

OR

Write short notes on:

- (i) Functions of antibodies in detail.
- (ii) Antigen structure in detail.

5. Write an essay on B-cells & their role in immune system.

OR

Write an essay on structure & functions of Cytokines.

6. Explain various aspects of transplantation in detail

OR

Explain immune response to various infectious diseases caused by virus, bacteria, protozoa & worms in detail.
