

C 82422

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2015

(CUCSS)

Zoology

ZO 4 CT 10—IMMUNOLOGY

Time : Three Hours

Maximum : 36 Weightage

I. Answer the following :-

- 1 Define innate immunity.
- 2 Name any two non-peptidic antigenic determinants.
- 3 Mention the applications of RIA.
- 4 Mention any two importance of antibody engineering.
- 5 Briefly describe CD3 complex.
- 6 Briefly explain cross reactivity.
- 7 What is secondary immune response ? How it is elicited ?
- 8 Describe the genetic basis of anaphylaxis.
- 9 Describe any two properties of T cell epitope.
- 10 Discuss about the classical pathways of complement activation.
- 11 Write brief note on immunological tolerance.
- 12 Briefly explain endogenous pathway of antigen presentation.
- 13 What is FACS analysis ?
- 14 Describe the immune response to bacterial antigen.

(14 × 1 = 14 weightage)

II. Answer any seven of the following :-

- 15 Describe the structure of a reticulocyte.
- 16 Write a brief note on antigenic properties of a substance.
- 17 List out the applications of Flow cytometry in Immunology.
- 18 Briefly explain the mechanism of agglutination reaction of AB blood group.
- 19 Give a brief account of humoral response.
- 20 Explain about Toll like receptor.

Turn over

- 21 Describe the immune response to infection of viral antigen.
- 22 Describe the mode of presentation of non-peptide bacterial antigens.
- 23 Give a brief account of cellular distribution of MHC antigens.
- 24 Briefly explain the application of ELISA in Immunology.

(7 × 2 = 14 weightage)

III. Answer any *two* questions :-

- 25 With a labeled diagram, explain the structure of lymph node.
- 26 Differentiate cytologically a T cell and a B cell.
- 27 Write an account on method of production of monoclonal antibodies.
- 28 Give an account on the organization of immunoglobulin genes.

(2 × 4 = 8 weightage)