

**C 31306**

(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017**

(CUCSS)

Zoology

**ZO3 CT 07—IMMUNOLOGY**

(2016 Admission)

Time : Three Hours

Maximum : 36 Weightage

**Part A**

I. Write short notes on *all* the fourteen questions.

- 1 DiGeorge Syndrome.
- 2 DNA Vaccines.
- 3 Allergen.
- 4 Autograft.
- 5 Minor Histocompatibility Antigens.
- 6 Function of C1 inhibitor.
- 7 Chagas disease.
- 8 Superantigens.
- 9 Precipitation reaction in Immunology.
- 10 CDRs of Immunoglobulin.
- 11 J chain of antibody.
- 12 Idiotype antibody.
- 13 Hapten.
- 14 Leukopoiesis.

(14 × 1 = 14 weightage)

**Part B**

II. Answer any *seven* of the following :

- 15 Give an account on regulation of Hematopoiesis.
- 16 Explain the immunotechnique ELISA.

**Turn over**

- 17 Illustrate the production of Monoclonal antibodies.
- 18 Give an account on complement components and its regulation.
- 19 Explain Antigen presentation pathways.
- 20 Explain the role of IgE, mast cells and basophils in type I hypersensitivity..
- 21 Give the merits and demerits of attenuated and inactivated Vaccines..
- 22 With suitable example explain primary Immune deficiency diseases.
- 23 Give an account on factors that influence Immunogenicity.
- 24 Explain Immunosuppression and transmission of HIV.

(7 × 2 = 14 weightage)

### Part C

III. Answer any *two* of the following :

- 25 With suitable diagram explain the structure of a typical antibody and the mechanism of antibody diversity.
- 26 Give detailed account on the development and activation of B cells.
- 27 Explain the general organization and inheritance of MHC molecules.
- 28 Write an essay on transplantation Immunology.

(2 × 4 = 8 weightage)