

**C 4726**

**(Pages : 2)**

**Name**

**Reg. No. ....**

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016**

**(CUCSS)**

**Microbiology**

**MB 2C 06—IMMUNOLOGY**

**(2010 Admissions)**

**Time : Three Hours**

**Maximum : 36 Weightage**

**I. Answer *all* questions. Write briefly on the following. Each question carries 1 weightage :**

- 1 Properdin pathway.
- 2 Hyper variable region in immunoglobulin.
- 3 Arthus reaction.
- 4 Rh Antigen.
- 5 White pulp of spleen.
- 6 indirect immunofluorescence.
- 7 Radial immunodiffusion.
- 8 HAT medium.
- 9 Immunological tolerance.
- 10 Sequestered antigens.
- 11 Clonal selection theory.
- 12 Haptens.
- 13 Systemic lupus erythematosus.
- 14 Cross matching of blood samples.

**(14 x 1 = 14 weightage)**

**II. Write notes in *one paragraph* on any *seven* of the following. Each question carries 2 weightage :**

- 15 Tumor antigens.
- 16 Antigen presenting cells.

**Turn over**

- 17 Immunosuppressive agents.
- 18 Immunological role of bone marrow.
- 19 Immunoglobulin allotypes.
- 20 IgA.
- 21 Lymphokines.
- 22 Secondary immune response.
- 23 MHC.
- 24 Immunotherapy of cancer.

(7 x 2 = 14 weightage)

III. Answer any *two* questions. Each question carries 4 weightage :

- 25 Describe the structure and functions of secondary lymphoid organs.
- 26 Give an account of immunodeficiency diseases.
- 27 Describe the various types of hypersensitivity reactions.

(2 x 4 = 8 weightage)