(Pages : 2)

Name

Reg. No.

## SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2019

(CUCSS)

## Microbiology

## MB 2C 06—IMMUNOLOGY

## (2010 Admissions)

Time : Three Hours

I. Answer all questions. Comment on the following. Each question carries 1 weightage :

- 1 Secretory IgA.
- 2 Immunoglobulin class switching.
- 3 Immunoelectrophoresis.
- 4 Thymus.
- 5 Memory Bcells.
- 6 LE phenomenon.
- 7 Tumour necrosis factors.
- 8 Arthus reaction.
- 9 X-linked agammaglobulinemia.
- 10 Lymphadenoid goitre.
- 11 GVH reaction.
- 12 Bombay blood group.
- 13 Lymphokines.
- 14 Antigen dependant cytotoxic cells.

 $(14 \times 1 = 14 \text{ weightage})$ 

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

- 15 Processing and presentation of antigens.
- 16 T-cell maturation and development.
- 17 Immunodiffusion in gel.
- 18 ELISA.
- 19 Anaphylaxis.

Turn over

Maximum : 36 Weightage

- 20 Immune responses to tumours.
- 21 Secondary immunodeficiencies.
- 22 Immunoglobulin isotypes and allotypes.
- 23 HLA.

(7 x 2 = 14 weightage)

III. Explain any two of the following. Each question carries 4 weightage :

- 24 Structure of IgG.
- 25 Cells of immune system.
- 26 Hybridoma technology and monoclonal antibody production.

(2 x 4 = 8 weightage)