

**C 63146**

**(Pages 2)**

**Name**

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

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2014**

(CSS)

Microbiology

MB 2C 06—IMMUNOLOGY

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Answer all questions in 2 or 3 sentences each.  
Each question carries weightage 1.*

1. Active immunity.
2. NK cells.
3. IgM.
4. Bursa of Fabricius.
5. Dendritic cells.
6. Clonal selection theory.
7. Complement fixation test.
8. Monospecific antibodies.
9. Central immunological tolerance.
10. Lupus erythematosus.
11. Serum sickness.
12. Universal donors.
13. Immunosuppressive drugs.  
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(14 x 1 = 14 weightage)

**Section B**

*Write short notes on any seven.  
Weightage for each 2.*

15. Central lymphoid organs.
16. Immunoglobulin isotypes, allotypes and idiotypes.

**Turn over**

17. Genetic basis of antibody diversity.
18. Primary and secondary immune responses.
19. Alternative pathway of complement activation.
20. Hemolytic disease of newborn.
21. Immunodeficiency diseases.
22. Hybridoma technology.
23. MHC.

(7 x 2 = 14 weightage)

### Section C

*Write essays on any **two** questions.  
Each has weightage of **4**.*

24. Cytokines and lymphokines.
25. Applications of antigen-antibody reactions in immuno diagnosis.
26. Hypersensitivity reactions.

(2 x 4 = 8 weightage)