

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Immunology

Subject Code : 5SC03IMM1

Branch: M.Sc. (Microbiology)

Semester : 3

Date : 01/12/2018

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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SECTION – I

Q-1 Attempt the Following questions 7

- a. MAbs are polyclonal in nature. True/False
- b. APCs are used to kill the pathogens. True/False
- c. What is HLA?
- d. What is Avidity?
- e. Write full form of RIA.
- f. DiGeorge syndrome is related to neuronal disorder. True/False
- g. Write full form ADCC.

Attempt All Questions.

Q-2 Write short notes on- 7

- a Allergy 7
- b ELISA 7

OR

Q-2 a B-cell maturation 7
b Antigen processing 7

Q-3 Attempt all questions

- a What do you hematopoiesis? Explain it with suitable diagram. 7
- b Explain the classes of Immunoglobulin. 7

OR

Q-3 What is Hybridoma technology? Explain the production and applications of monoclonal antibodies. 14



SECTION – II

- Q-4** **Attempt the Following questions** **7**
- a. SCID is related to neuronal disorder. True/False
 - b. What are Haptens?
 - c. Complement system works on cascade mechanism. True/False
 - d. What are Tumor markers?
 - e. How many light chains are present in IgM?
 - f. C_{2a} causes Immunodeficiency disorders. True/False
 - g. What do you mean secondary antibody?
- Q-5** **Write short notes on-**
- a Explain the basic principle of ELISA. **7**
 - b Explain the factors affecting the antigenicity of a molecule. **7**
- OR**
- Q-5** a What is MHC class II molecule? Explain its structure with suitable diagram. **7**
- b Briefly explain the types of antibodies with suitable diagram. **7**
- Q-6** **Write short notes on-**
- a Primary immune response **7**
 - b Western blotting **7**
- OR**
- Q-6** **Attempt all Questions**
- a What do you mean by tumor immunity? Explain it with suitable diagram. **7**
 - b Explain the classical pathway of complement system. **7**

