

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Immunology

Subject Code: 4SC05IMM1

Branch: B.Sc. (Microbiology)

Semester: 5

Date: 22/04/2022

Time: 11:00 To 02:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator & 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.

Q-1 **Attempt the following questions:** **(14)**

- | | | |
|----|---|----|
| a) | Define:-Immunology. | 01 |
| b) | What is stem cell? | 01 |
| c) | What is the role of T cell? | 01 |
| d) | What is the Function of B cell? | 01 |
| e) | Expand – NK cell. | 01 |
| f) | Define – Hapten. | 01 |
| g) | What is Epitope? | 01 |
| h) | Draw the structure of Antibody. | 01 |
| i) | Antibody produced by which cell? | 01 |
| j) | Expand :- MHC | 01 |
| k) | Write down the examples of Immunodeficiency disorders | 01 |
| l) | Define :- Tumor Markers | 01 |
| m) | Expand – SCID | 01 |
| n) | What is Cross reactivity? | 01 |

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions** **(14)**

- | | | |
|-----|--|----|
| (a) | Write a detail note on ELISA. | 07 |
| (b) | Write a detail note on causes and therapy for cancers. | 07 |

Q-3 **Attempt all questions** **(14)**

- | | | |
|-----|---|----|
| (a) | Write a detail note on generation of Cell mediated Immune Response. | 07 |
| (b) | Write a detail note on Agglutination. | 07 |

Q-4 **Attempt all questions** **(14)**

- | | | |
|-----|---|----|
| (a) | Write a detail note on Monoclonal and Chimeric antibodies | 07 |
| (b) | Write a detail note on Bone Marrow. | 07 |



