

M.Sc.–II Semester–III (CBCS) Examination
BIOCHEMISTRY
BASIC IMMUNOLOGY
Paper–IX

Time : Three Hours]

[Maximum Marks : 80

N.B.:— (1) All questions are compulsory and carry equal marks.

(2) Draw well labelled diagram and figures wherever necessary.

1. Discuss the following :

- | | |
|-------------------------------|---|
| (a) B Lymphocytes | 5 |
| (b) Natural Killer cells | 5 |
| (c) Haematopoietic stem cells | 6 |

OR

- | | |
|------------------------------|---|
| (d) Antigen presenting cells | 5 |
| (e) T-lymphocytes | 5 |
| (f) Hematopoiesis. | 6 |

2. Describe in detail Natural and Artificial passive immunity. 16

OR

Describe in detail Natural and Artificial Active immunity. 16

3. Explain the following :

- | | |
|-------------------------------|---|
| (a) Phage neutralization | 5 |
| (b) ELISA | 5 |
| (c) Immunoelectron Microscopy | 6 |

OR

- | | |
|----------------------------|---|
| (d) Complement Fixation | 5 |
| (e) Opsonisation | 5 |
| (f) Immunoelectrophoresis. | 6 |

4. Write in brief the structure and biology of MHC-I and MHC-II. 16

OR

Describe the structure and function of any two secondary lymphoid organs. 16

5. Discuss the following :

- | | |
|--------------------|---|
| (a) Anaphylaxis | 5 |
| (b) Serum sickness | 5 |
| (c) Lymphokines | 6 |

OR

- | | |
|-----------------------------------|---|
| (d) Mantoux hypersensitivity test | 5 |
| (e) Immunoglobulin super family | 5 |
| (f) Erythroblastosis foetalis. | 6 |

