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Total No. of Pages: 02

Total No. of Questions: 11

M.Sc. (BT) (Sem. – 2)

IMMUNOLOGY AND IMMUNOTECHNOLOGY

Subject Code: MBT-202

M Code: 76246

Date of Examination: 14-12-2022

Time: 3 Hrs.

Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **SEVEN** questions carrying **SIX** marks each and students have to attempt any **FIVE** questions.
3. SECTION-C contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. Give a brief account of the following:
 - a) Haptens
 - b) What are the differences between effector and memory cells
 - c) Idiotypes
 - d) Discovery of MHC
 - e) Pernicious anemia
 - f) IL4
 - g) Isograft
 - h) Cancer induction
 - i) Methods of isolation of lymphocytes from blood
 - j) RID

SECTION-B

2. What type of interactions occur between antigens and antibodies?
3. What are the functions of macrophages?
4. Describe the structure of TCR.
5. Giving the genomic organization of Class II MCH antigens give their structure.
6. How immunotherapy can help in cancer management?
7. Write down the methods of purification of antibodies.
8. How to produce antibodies.

SECTION-C

9. How rearrangement of genes occurs to form an immunoglobulin gene?
10. What do you understand by immunosuppression? How immunosuppressive therapy is done and what is its significance?
11. Give the detail of fluorescence based assays in immunodiagnosis.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.