

D11719

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2021

(CBCSS)

Zoology

ZOL 3C 07—IMMUNOLOGY

(2019 Admission onwards)

Maximum : 30 Weightage

Time : Three Hours

General Instructions

1. In cases where choices are provided, students can attend **all** questions in each section.
2. The minimum number of questions to be attended from the Section / Part shall remain the same.
3. The instruction if any, to attend a minimum number of questions from each sub section / sub part / sub division may be ignored.
4. There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.

Part A

I. Answer any *four* of the following. Each question carries 2 weightage :

- 1 Precipitation reactions.
- 2 B-cell receptors.
- 3 Common adjuvants.
- 4 Exogenous pathway of antigen processing.
- 5 Recombinant Signal Sequence.
- 6 Distinguish between allografts and autografts.
- 7 What are monoclonal antibodies ?

(4 × 2 = 8 weightage)

Part B

II. Answer any *four* of the following. Each question carries 3 weightage :

- 8 Write a short essay on the structure of MHC-I molecules.
- 9 Compare ELISA with Western Blot technique.
- 10 Compare humoral and cellular immunity.

Turn over

- 11 With illustrations describe the structure of a typical immunoglobulin molecule.
 - 12 Write a short essay on Type-II hypersensitivity reaction.
 - 13 Briefly describe the factors that influence immunogenicity.
 - 14 Write a short essay on Classical complement pathway.
- III Answer any two of the following. Each question carries 5 weightage : (4 × 5 = 20)
- 15 Write an elaborate account on cytokines and their role in immune mechanism.
 - 16 Write an essay on hematopoiesis.
 - 17 Write an essay on different types of vaccines. Add a note on their merits and demerits.
 - 18 Write an essay on immune deficiency diseases. (2 × 5 = 10)