

23P314

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Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ZOL3 C07 - IMMUNOLOGY AND CELL BIOLOGY

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. What are PAMPs and DAMPs?
2. What is prozone effect?
3. Review the signalling in TLRs.
4. What is MHC?
5. Describe the antigen processing and presentation by MHC-II.
6. Describe the functions of collagen.
7. Explain RTK Pathway.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Explain about antigens and its types and role in immunology.
9. What are the major steps in the development of B-Lymphocytes?
10. Explain the mechanism of V(D)J recombination and comment on its importance.
11. Describe the lectin pathway of complement activation.
12. Explain the immunology of tuberculosis.
13. Describe in detail: a) Bruton's disease b) Di-george syndrome c) SCID
14. Explain the mechanism of cell sorting and regulation of intracellular transport

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Review the method of production of monoclonal antibodies by hbridoma. What are its uses?
16. Describe the principle and working of Western blot. Comment on its major applications.

17. Describe in detail various types of vaccines and their importance in preventing diseases.

18. Explain Extracellular and Intracellular regulation of apoptosis.

(2 × 5 = 10 Weightage)
