19002114

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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, NOVEMBER 2019

Third Semester

Faculty of Science

Branch VIII : Zoology

ZY 3 CT 14—IMMUNOLOGY

(2012–2018 Admissions)

Time : Three Hours

Maximum Weight : 30

Section I (Short Answer Type Questions)

Answer any **ten** *out of twelve questions.*
Weight 1 *for each question.*

1. Haptens.
2. MAC.
3. Haematopoiesis.
4. Allergy.
5. Adjuvants.
6. Epitopes.
7. Agglutination.
8. Chemokines.
9. HLA typing.
10. SCTD.
11. Recombinent vector vaccines.
12. Immunofluorescence.

(10 × 1 = 10)

Section II (Short Essay Type Questions)

Answer any **five** *out of eight questions.*
Weight 2 *for each question.*

13. Innate and acquired immunity.
14. Generation of antibody diversity.
15. Antigen-Antibody reactions.
16. Regulation of complement system.

Turn over

17. Types of hypersensitivity.
18. HLA complex in humans.
19. Treatment of autoimmune diseases.
20. Immuno-electron microscopy.

(5 × 2 = 10)

Section III (Long Essay Type Questions)

Answer any **two** *out of three questions.*
Weight 5 for each question.

21. Role of cytokines in immune system.
22. MHC and graft rejections.
23. Tumour immunology.

(2 × 5 = 10)