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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, JANUARY 2024

Third Semester

Faculty of Science

Branch VIII—Zoology

ZY 3CT 14—IMMUNOLOGY

[2018 Admissions—Supplementary/2017, 2016 and 2015 Admissions—Mercy Chance]

Time : Three Hours

Maximum Weight : 30

Section A (Short Answer Type Questions)

Answer any **ten** *out of twelve.*

Weight 1 *each.*

1. Pattern recognition receptors.
2. Monoclonal antibodies.
3. Epitopes.
4. Precipitation.
5. Agglutination.
6. Chemokines.
7. Cytokines.
8. HLA typing.
9. Ataxia.
10. Autoimmunity.
11. Recombinant vector vaccines.
12. Immunoelectron microscopy.

(10 × 1 = 10)

Turn over

Section B (Short Essay Type Questions)

Answer any **five** *out of eight.*

Weight 2 *each.*

13. Humoral and cell-mediated immune responses.
14. Antigen processing and presentation.
15. Immunologic basis of graft rejection.
16. Therapeutic uses of cytokines.
17. Types of Hypersensitivity.
18. Regulation of MHC expression.
19. Multivalent subunit vaccines.
20. Radio-Allergosorbent Test (RAST).

$(5 \times 2 = 10)$

Section C (Long Essay Type Questions)

Answer any **two** *out of three.*

Weight 5 each.

21. Antigen-Antibody reactions and its biological consequences.
22. Expression of Ig genes and regulation of Ig genes transcription.
23. Regulation of complement system.

$(2 \times 5 = 10)$