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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, FEBRUARY 2021

Third Semester

Faculty of Science

Branch VIII—Zoology

ZY 3CT 14—IMMUNOLOGY

[2012—2018 Admissions]

Time : Three Hours

Maximum Weight : 30

Section I (Short Answer Type Questions)

Answer any **ten** *out of twelve.*
Each question carries weight 1.

1. Hypersensitivity.
2. HLA Complex.
3. Antibody gene.
4. HTA locus.
5. Passive and active immunity.
6. Monoclonal antibody.
7. NK cells.
8. Synthetic vaccine.
9. Chemokine.
10. Hapten.
11. PRRS.
12. MCH Protein.

(10 × 1 = 10)

Turn over

Section II (Short Essay Type Questions)

Answer any **five** *out of eight.*
Each question carries weight 2.

13. Explain different types of inflammation.
14. Write a short essay on Major Histocompatibility Complex.
15. Write down the biological consequences of antigen-antibody reactions.
16. Explain the role of secondary lymphoid organs.
17. How cytokines involve in immunogenic reactions ?
18. What is HAT medium and its applications ?
19. Explain the immune responses to different pathogens.
20. What is the principle of Radio-allergosorbent Test and how it is done ?

(5 × 2 = 10)

Section III (Long Essay Type Questions)

Answer any **two** *out of three.*
Each question carries weight 5.

21. Explain different types of immunity.
22. Write an essay on the activation of complement system and its role in disease.
23. Write an essay on autoimmune diseases.

(2 × 5 = 10)