Reg. No. : ....

Name : ....

Fifth Semester B.Sc. Degree Examination, December 2021

First Degree Programme Under CBCSS

Zoology

Core Course VII

ZO 1542 — IMMUNOLOGY AND MIRCOBIOLOGY

(2018 Admission)

Time : 3 Hours　　　　　　　　　　　　　　　　　　Max. Marks : 80

I.　Answer the following questions (in **one** or **two** sentences. **1** mark each)

1.　Contribution of Louis Pasteur into the field of microbiology.

2.　Innate immunity.

3.　Plasma cells.

4.　Hapten.

5.　Type 1 Hypersensitivity.

6.　Thermophiles.

7.　Sulpur bacteria.

8.　Plasmodium.

9. Halophiles.

10. Name any two viral diseases in man.

(10 × 1 = 10 Marks)

II. Answer any **eight** questions of the following (Not to exceed **one** paragraph. Each carry **two** marks)

11. Artificial immunity.

12. Opsonisation.

13. Ig G

14. MHC

15. Zone phenomenon

16. AIDS

17. DNA Vaccines

18. Autoimmunity

19. Allograft

20. Prions

21. Cyanobacteria

22. Complement system

23. Any two agricultural applications of microbiology

24. Aspergillosis.

25. Botulism

26. Microbial toxin.

(8 × 2 = 16 Marks)

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III. Answer any **six** of the following (Not to exceed **120** words. Each carry **4** marks)

27. Trace the historical development of immunology.

28. Explain acquired immunity with examples.

29. Cell mediated immunity.

30. Agglutination.

31. Disorders of phagocytosis.

32. Hypersensitivity.

33. Structure of a bacteriophage.

34. Ecological importance of microbes.

35. Give a broad classification of virus.

36. Comment on the importance of microbiology in medical field.

37. Briefly Describe human microbiota.

38. Comment on microbes -plants interactions.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following

39. Explain tissues of immune system

40. Define immunoglobulin and describe its structure

41. Write an essay on immunodeficiency diseases

42. Give a detailed account on various types of graft. Add a note on graft rejection

43. Discuss the beneficial, harmful impact of microbes

44. Write an essay on microbial diseases in human.

(2 × 15 = 30 Marks)

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