

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2019

First Degree Programme under CBCSS

Zoology

Core Course VII

ZO 1542 : IMMUNOLOGY AND MICROBIOLOGY

(2015 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

Draw diagram where ever necessary.

PART – A

I. Answer the following questions (In **one** or **two** sentences. One mark each)

1. Rhodophyta

2. Haptens

3. Animalcule

4. Immunosuppressants

5. *Bacillus thuringiensis*

6. Precipitin

7. Rhizosphere

8. Chronic Granulomatous Disease
9. Monoclonal antibodies
10. Attenuation.

(10 × 1 = 10 Marks)

PART – B

II. Answer **any eight** of the following (Not to exceed **one** paragraph. each carries **2** mark)

11. Classify bacteria based on their shape
12. Inflammation
13. Pathophysiology of AIDS
14. Mycoplasma
15. Differentiate passive and active immunity
16. Koch's Postulates
17. Lymphoid cells
18. Malaria
19. Biological effect of complements
20. Cyanobacteria
21. Immunological tolerance
22. Idiotypic determinant.

(8 × 2 = 16 Marks)

PART – C

III. Answer **any six** of the following (Not to exceed 120 words. each carries **4** mark)

23. Antigen presenting cells
24. Illustrate the symbiotic association between microbes and plant
25. Myasthenia gravis and rheumatoid arthritis as autoimmune disease
26. What are the major groups of Fungi?
27. Important attributes of acquired immunity.
28. Comment on chemolithotrophic bacteria.
29. Write note on microbial toxins.
30. Humeral and cell mediated immunity.
31. Briefly explain different congenital immunodeficiency diseases.

(6 × 4 = 24 Marks)

PART – D

IV. Answer **any two** of the following (Each carries **15** mark)

32. What are the common viral diseases of man?
33. Write an essay on different types of vaccines.
34. Elucidate the application of microbiology in agriculture, Industrial and biotechnological fields.
35. Comment on the organs and tissues of Immune system.

(2 × 15 = 30 Marks)