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Reg. No. : .....

Name : .....

**Fifth Semester B.Sc. Degree Examination, December 2022**

**First Degree Programme under CBCSS**

**Zoology**

**Core Course – VII**

**ZO 1542 : IMMUNOLOGY AND MICROBIOLOGY**

**(2015 – 2017 Admission)**

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions in **one** or **two** sentences

1. Write a short note on plasmid.
2. What is Speroplast.
3. Coomb's test.
4. List the monomeric component of peptidoglycan.
5. What is Rickettsiae?
6. Define paratope.
7. What is myeloid progenitor cell?
8. What is monoclonal antibody?
9. Smallest Immunoglobulin.
10. Expand HIV.

**(10 × 1 = 10 Marks)**

P.T.O.

II. Answer **any eight** of the following questions, Not to exceeding **one** paragraph. Each question carries **2** marks.

11. Write on Aspergillosis.
12. What are antigenic determinants?
13. Dendritic cells.
14. Write on MALT.
15. Briefly write on Vaccine conjugates.
16. Write scientific names of any four pathogenic bacteria.
17. Mention symbiotic relationship between plants and microbes.
18. What is mesosome?
19. Briefly write on Lymphokines.
20. Mention Zone phenomenon.
21. Write a brief account on auto immunity.
22. What are toxoids?

**(8 × 2 = 16 Marks)**

III. Answer **any six** of the following questions not to exceeding **120** words. Each question carries **4** marks.

23. Differentiate prokaryotic and eukaryotic cells.
24. Write on chemolithotropic bacteria.
25. Sketch and label the structure of bacteria.
26. What are the types of immunity?

27. Explain Parasitic Protista with special reference to plasmodium.
28. What is graft rejection?
29. Comment on immunohaematology.
30. What are the characteristic features of Archaeobacteria?
31. Sketch and label immunoglobulin.

**(6 × 4 = 24 Marks)**

IV. Answer **any two** of the following questions each one carries **15** marks.

32. What is Microbiology? Write its History; Explain the various fields and scope of microbiology?
33. What are secondary lymphoid organs? How do they differ from primary lymphoid organs?
34. Write an essay on vaccines, properties, types, TAB and DPT.
35. Give a brief account on Autoimmune disease.

**(2 × 15 = 30 Marks)**

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