



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

Fourth Semester Career Related B.Sc. Degree Examination, June 2016

First Degree Programme under CBCSS

Vocational Course – VI: (for Botany and Biotechnology)

AUBB452: Immunology

Time: 3 Hours

Max. Marks: 80

SECTION – A

Answer ALL the following in a word or one or two sentences.

1. Name the only maternal immunoglobulin that is normally transported across the placenta.
2. Haptens.
3. Which is the largest of the lymphoid organs ?
4. Expand GALT.
5. Epitope.
6. Name any two autoimmune diseases.
7. Discoverer of phagocytosis.
8. Grave yard of RBC.
9. Name the immunoglobulin that is present in saliva and tears.
10. Humoral immunity.

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding a paragraph.

11. Immunity.
12. Monoclonal antibodies.
13. DNA Vaccines.

1314

14. Differentiate antigens and haptens.
15. Auto immunity.
16. Immunoelectrophoresis.
17. Explain T lymphocytes.
18. Differentiate epitope and paratope.
19. IgG
20. Herd immunity.
21. Explain the action of B lymphocytes.
22. ADCC

(8 × 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

23. What is Immunogenicity ? Explain the factors that influence immunogenicity.
24. What is a vaccine and briefly explain the different kinds of vaccines.
25. Explain acquired immunity.
26. Explain different granulocytic cells with suitable diagrams.
27. Differentiate isotype, idiotype and allotype antibodies.
28. Explain V–D–J recombination as a genetic basis of antibody diversity.
29. What is rheumatoid arthritis ?
30. Explain hybridoma technology.
31. Differentiate competitive ELISA and sandwich ELISA.

(6 × 4 = 24 Marks)

SECTION – D

Long essay type : Answer any TWO questions.

32. What is the basic structure of an antibody? Describe immunoglobulin classes with suitable diagrams.
33. Explain precipitation reactions. Mechanism and application of precipitation reactions.
34. Explain primary lymphoid organs with suitable diagrams.
35. Describe autoimmune diseases and its classification with examples.

(2 × 15 = 30 Marks)

[**]**