

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086

(For candidates admitted during the academic year 2009 – 10 & thereafter)

SUBJECT CODE: BY/PC/IM34

M. Sc. DEGREE EXAMINATION, NOVEMBER 2011

BIOTECHNOLOGY

THIRD SEMESTER

COURSE : CORE

PAPER : IMMUNOTECHNOLOGY

TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS:

(20 x 1 = 20)

DEFINE / EXPLAIN THE FOLLOWING.

1. Interferons
2. Lymph
3. HLA
4. Neutrophils
5. Histamine
6. MHC
7. Hybridomas
8. RID
9. Lymphokines
10. Perforin
11. Cytokines
12. Myeloma cells
13. Haptens
14. ELISA
15. DTH Typing
16. Toxoids
17. Epitopes
18. Lympholysis
19. Thymosin
20. Electrophoresis

SECTION – B

ANSWER ANY FOUR QUESTIONS. EACH IN ABOUT 600WORDS: (4 x 10 = 40)

21. Give an account on Lymphoid organs and discuss their function.
22. Briefly explain the characteristic features and classification of antigen.
23. Write a note on autoimmune disorders.
24. Explain recombinant DNA vaccines.
25. Briefly discuss the types of immunoglobulins.
26. Discuss T cell maturation and activation.

SECTION – C

ANSWER ANY TWO QUESTIONS. EACH IN ABOUT 1500WORDS :(2x20 = 40)

27. Discuss monoclonal antibodies and hybridoma technology.
28. Explain innate and adaptive immunity.
29. What are macrophages? Explain macrophage culture and assay for macrophage activation.
30. Write short notes on
 - a) active and passive immunization
 - b) Role of cytokines in immune response
