

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted during the academic year 2015 – 2016)

**SUBJECT CODE: 15ZL/MC/IM64**

**B. Sc. DEGREE EXAMINATION APRIL 2018**  
**BRANCH VIA. ADVANCED ZOOLOGY & BIOTECHNOLOGY**  
**SIXTH SEMESTER**

**COURSE : MAJOR CORE**  
**PAPER : IMMUNOLOGY**  
**TIME : 3 HOURS**

**MAX. MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS:**

**(10 X 3 = 30)**

1. What are macrophages?
2. What is the function of Bursa of Fabricius?
3. Write any two properties of antibody.
4. What is an epitope?
5. What is an allograft?
6. What is the significance of Mantoux reaction?
7. Mention any three parasitic infections.
8. Enlist any three properties of cytokines.
9. Differentiate between primary and secondary immune response.
10. What causes Rheumatoid arthritis?

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 X 6 = 30)**

11. Explain the structure and function of thymus.
12. Explain the primary structure of an antibody.
13. Write a note on types of hypersensitivity reactions.
14. Describe the process of signal transduction in cytokines.
15. Write a note on types and importance of vaccines.
16. Discuss the antigen – antibody reaction.
17. Write about the molecules of the immune system.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS:**

**(2 X 20 = 40)**

18. Explain in detail Acquired immunity.
19. Give an account on complement system.
20. Explain the types of grafts and discuss the types of rejection.
21. Discuss about the immune reactions in Viral and Bacterial infections.

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