

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2008-09 & thereafter)
SUBJECT CODE: ZL/MC/IM34

B.Sc. DEGREE EXAMINATION NOVEMBER 2010
BRANCH VIA. –ADVANCED ZOOLOGY AND BIOTECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR CORE
PAPER : IMMUNOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS

(10 x 3 = 30)

1. Fill in the blanks

- a) The _____ of the complement system brings about lysis of target cells.
- b) Immunoglobulin which is responsible for anaphylactic hypersensitivity_____.
- c) _____ is the non antibody substance produced during viral infection.

2. Choose the correct answer

- a) ‘ The millionaire molecule’
 - i) IgA ii) IgM iii) IgD
- b) ‘Ouchterlony procedure’ is related to
 - i) Agglutination ii) Neutrilization iii) Immunodiffusion
- c) First recombinant vaccine
 - i) Hepatitis B vaccine ii) HIV vaccine iii) Swine Flu vaccine

3. True/ False

- a) Complements are non specific serological agents.
- b) Bacterial fimbriae are antigenic.
- c) IgM can be transported across the placenta
- d) Anti D antiserum can be used for identifying Rh factor.
- e) Opsonin facilitates phagocytosis.
- f) Influenza virus can not undergo antigenic drift or antigenic shift.

4. Match the Following

- | | | |
|----------------------------|---|----------------------|
| a) Passive immunization | - | hyper sensitivity |
| b) Inteleukin – 2 | - | T Helper |
| c) Histamine | - | Angioneurotic edema |
| d) Immunoglobulin | - | Antivenin |
| e) CD4 | - | T cell growth factor |
| f) C1 inhibitor deficiency | - | Glycoprotein |

5. Define

- a) MHC b) Immuno suppression c) Prophylaxis

6. Distinguish between

- a) Epitope and Paratope
b) Autograft and allograft
c) Naturally acquired active Immunity and Artificially acquired active Immunity

7. Expand the following abbreviations

- a) APC b) HLA c) TT

8. Mention any three important cytokine groups.

9. Illustrate the C.S. of MALT.

10. Give the functions of

- a) NK cells b) Macrophages c) Complement

SECTION – B**ANSWER ANY FIVE QUESTIONS****(5 x 6 = 30)**

11. Give a brief note on anatomical barriers of innate immunity.
12. Differentiate the primary and secondary immune responses.
13. Explain Antigen – Antibody Reactions.
14. Describe the mechanism of Graft rejection.
15. Give a brief account on immunity against parasites.
16. What are live attenuated vaccines? Explain with an example.
17. Describe Antigen processing and presentation.

SECTION – C**ANSWER ANY TWO QUESTIONS****(2 x 20 = 40)**

18. Write an essay on lymphoid organs.
19. Describe the structure of IgG and IgA.
20. Give a detailed account of any one type of hyper sensitivity.
21. Write an essay on cell mediated immunity
