 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION - **MEDICAL LAB. TECHNOLOGY**

SECOND SEMESTER – **NOVEMBER 2012**

# ML 2811 - IMMUNOLOGY

Date : 06/11/2012 Dept. No. Max. : 100 Marks

Time : 1:00 - 4:00

**Section A**

**Answer ALL the questions: (2×10 = 20 Marks)**

1. List the factors that are responsible for innate immunity
2. Differentiate Humoral fromcell mediated immunity.
3. What are forsmann antigen?
4. Define antigenicity and immunogenicity.
5. How can anaphylactic hypersensitivity be prevented?
6. What are tumour antigens?
7. What is Di – George syndrome?
8. When does cross reactivity occur?
9. What are the two types of null cells?
10. Distinguish epitope from paratope.

**Section B**

**Answer any FOUR of the following: (10×4 = 40 Marks)**

1. Draw and label the structure of the section of thymus.
2. Differentiate T from B lymphocytes. Describe T cell subsets.
3. Define complement. Write its salient features.
4. Explain the types of isoimmune reactions
5. What is SLE? Explain.
6. Give an account of the factors controlling antigen antibody interactions.

**Section C**

**Answer any TWO of the following: (20×2 = 40 Marks)**

1. Describe the basic structure of immunoglobulins. Add a note on its functions.
2. What are the different types of vaccines? Explain
3. Discuss the causative factors, mechanism and symptoms of anaphylaxis.
4. Explain the different types of ELISA with a neat diagram.

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