 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2012

# ML 1808 – CLINICAL BIOCHEMISTRY

 Date : 03/11/2012 Dept. No. Max. : 100 Marks

 Time : 1:00 - 4:00

***Section A***

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

1. Comment on essential almino acids
2. Define provitamins. Give one example.
3. What is glaucoma?
4. Draw the structure of haemoglobin.
5. Mention the principle involved in Van den Bergh reaction.
6. What is galactosemia?
7. What do you mean by phenylketoneuria?
8. Distinguish acidosis from alkalosis.
9. Define Achyliagastrica.
10. Differentiate uremia from haematuria.

***Section B***

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

1. Write notes on blood coagulation factors.
2. Explain kidney function tests.
3. Elaborate abnormalities of thyroid hormone.
4. Categorize and explain chemical hazards.
5. Write notes on the importance of electrolytes.
6. Explain the applications of markers in the diagnosis of tumor.

***Section C***

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

1. Describe digestion and absorption of carbohydrates and fats.
2. Define acute toxicity and explain absorption, accumulation and excretion of toxic substances.
3. Write an essay on categories of laboratory hazards and precautions.
4. Write notes on (i) digestion of protein and (ii) structure and function of Haemoglobin.

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