



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

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

FIRST SEMESTER – NOVEMBER 2011

**ML 1808 - CLINICAL BIOCHEMISTRY**

Date : 01-11-2011

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

**Section – A**

Answer **ALL** the questions.

10 x 2 = 20 Marks

1. Mention the intra and extra cellular electrolytes.
2. Distinguish precision and accuracy.
3. What are antithyroid agents?
4. Write the importance of the tumor marker: CA125, Calcitonin and BTA.
5. List down the inhibitors of TCA cycle.
6. What is buffer?
7. Define the term fibrinolysis?
8. Draw and label the structure of hemoglobin?
9. Differentiate acidosis from alkalosis.
10. Comment on Niemann pick disease?

**Section – B**

Answer any **FOUR** of the following

4 x 10 = 40 Marks

11. Write short notes on quality control and quality assurance.
12. Explain biochemical hazards with suitable diagrams.
13. Describe the biological functions and deficiency manifestation of fat soluble vitamins.
14. Discuss the mechanism of blood coagulation..
15. Explain the metabolic pathway and energy efficiency of glycolysis.
16. Elaborate the disorders of carbohydrate metabolism.

**Section – C**

Answer any **TWO** of the following

2 x 20 = 40 Marks

17. Discuss the different types of laboratory hazards and its safety measures.
18. Elaborate the mechanism of acid base balancing process.
19. Explain the functions, formation and clinical abnormalities of thyroid hormone.
20. What is clearance? Classify and explain renal and gastric function tests.

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