



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.A. DEGREE EXAMINATION – MEDICAL LAB TECH.

THIRD SEMESTER – NOVEMBER 2011

ML 3875 – PHARMACEUTICAL CHEMISTRY AND TOXICOLOGY

Date : 11-11-2011

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

Section- A

Answer **ALL** the Questions

10 × 2 = 20 Marks

1. Give the structure of saccharin and aspartame.
2. Define osmosis.
3. What are halogens?
4. Define therapeutic index.
5. Mention the use of chelation in medicine.
6. What are enzyme inhibitors?
7. Mention any four radio isotopes and mention their half-life.
8. What are the advantages and disadvantages of parenteral administration of drugs?
9. Write the applications of NMR in medicine.
10. What are mutagens?

Section- B

Answer any **FOUR** of the following

4 × 10 = 40 Marks

11. Discuss the different types of conventional semisolid dosage forms and their properties.
12. Write the functions, effects and types of antifungal drugs.
13. Classify teratogens. Write the mechanism of action.
14. Write short notes on facilitated diffusion and active transport.
15. What are the different immunoassay techniques? Explain RIA.
16. Write briefly on the structure and function of Scintillation counters.

Section – C

Answer any **TWO** of the following

2 × 20 = 40 Marks

17. Write in detail on placebo controlled study.
18. Describe the structure and use of Geiger Mueller counter.
19. Explain the different routes of drug administration.
20. How is a toxic substance absorbed, distributed and excreted? Explain.
