



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2014

ZO 1823 - HISTOCHEMISTRY & MICROTECHNIQUE

Date : 10/11/2014
Time : 01:00-04:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL questions. Each question carries two marks.

(10 × 2 = 20 Marks)

1. Comment on freeze drying.
2. What is keratin?
3. Comment on vital staining.
4. What is biopsy?
5. What is preservative?
6. Expand: STEM and ICMR
7. Comment on photomicrography.
8. What do you mean by metachromasia?
9. What is mordant?
10. Comment on Diethylene Oxide.

PART – B

Answer any FOUR questions. Each question carries ten marks.

(4 × 10 = 40 Marks)

11. Classify lipids and describe Sudan Black B method.
12. Give an account on cold knife method and its applications.
13. Describe the working principle of SEM
14. Give an account on haematoxylin – eosin staining in paraffin microtomy.
15. Classify proteins and describe Ninhydrin – Schiff method.
16. Describe the procedure involved in whole mount of soil microarthropods.

PART – C

Answer any TWO questions. Each question carries twenty marks.

(2 × 20 = 40 Marks)

17. Describe radio active labeling and its uses.
18. Give an account on Fluorescent microscopy and its applications.
19. Explain the procedure involved in the dry mount of insects.
20. Describe the different steps involved in Ultra microtomy.
