

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2009

ZO 1817 - HISTOCHEMISTRY & MICROTECHNIQUE

Date & Time: 13/11/2009 / 1:00 - 4:00 Dept. No.

Max. : 100 Marks

PART – A

Answer **ALL** the questions

(10 x 2 = 20 Marks)

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

PART – B

Answer any **FOUR**

(4 x 10 = 40 Marks)

11. Classify lipids and describe Sudan Black B method.
- 12. Give an account on Cryostat and its applications.**
13. Describe the working principle of SEM.
14. Explain the procedure involved in the dry mounting of insects.
15. Classify proteins and give an account of Ninhydrin-Schiff method.
16. Describe the whole mounting of soil microarthropods.

PART – C

Answer any **TWO**

(2 x 20 = 40 Marks)

17. Explain the procedure involved in paraffin microtomy.
18. Describe Radio Active Labeling and its uses.
19. Give an account on Fluorescent microscopy and its applications.
20. Describe the different steps involved in Ultra Microtomy.
