



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

**M.Sc. DEGREE EXAMINATION - ZOOLOGY**

**FIRST SEMESTER – NOVEMBER 2013**

**ZO 1823 - HISTOCHEMISTRY & MICROTÉCHNIQUE**

Date : 16/11/2013

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

**PART - A**

**Answer ALL the questions. Each question carries TWO marks.**

**(10 x 2 = 20 Marks)**

01. Comment on mordant.
02. What is autopsy?
03. Comment on metachromasia.
04. What is stoke shift?
05. Comment on freeze-drying.
06. What is collagen?
07. Comment on photomicrography.
08. What is Diethylene oxide?
09. Comment on vital staining.
10. Expand: STEM and ICMR.

**PART- B**

**Answer any FOUR questions. Each question carries TEN marks.**

**(4 x 10 = 40 Marks)**

11. Give an account on Cryostat and its advantages.
12. Give the flow chart showing the steps involved in Ultramicrotomy.
13. Describe the identification and extraction of DNA.
14. Classify proteins and describe Ninhydrin-Schiff method.
15. Describe the whole mount of soil microarthropods.
16. Classify lipids and describe Sudan Black B method.

**PART - C**

**Answer any TWO questions. Each question carries TWENTY marks.**

**(2 x 20 = 40 Marks)**

17. Describe the procedure involved in the dry mount of insects.
18. Explain the principle and sample preparation involved in SEM.
19. Discuss paraffin microtomy and its importance.
20. Give an account on Autoradiography and its applications.

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