



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – APRIL 2013

ZO 1823/1817 - HISTOCHEMISTRY & MICROTECHNIQUE

Date : 08/05/2013

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

PART – A

(10 × 2 = 20 Marks)

Answer ALL questions. Each question carries TWO marks.

01. What is dioxane?
02. Comment on collagen.
03. Define autopsy.
04. Comment on Mordant and Lake.
05. What is vital staining?
06. Comment on Freeze drying.
07. What is stoke shift?
08. Comment on metachromasia.
09. Differentiate SEM from TEM.
10. What is biopsy?

PART – B

(4 × 10 = 40 Marks)

Answer ANY FOUR questions. Each question carries TEN marks.

11. Classify proteins and describe Ninhydrin-Schiff method.
12. Describe the sample preparation for Scanning electron microscopic studies.
13. Give an account on fluorescent microscope and its applications.
14. Classify lipids and describe Oil Red O method.
15. Give an account on cryostat and its applications.
16. Describe the procedure involved in mounting of soil microarthropods.

PART – C

(2 × 20 = 40 Marks)

Answer ANY TWO questions. Each question carries TWENTY marks.

17. Give an account on Autoradiography and its applications.
18. What is an Ultramicrotome? Describe different steps involved in Ultramicrotomy?
19. Describe the procedure for dry mount of insects.
20. Explain the procedure involved in paraffin microtomy.
