



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

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

**SECOND SEMESTER – APRIL 2017**

**16PZO2ES01- HISTOCHEMICAL TECHNOLOGY**

Date: 28-04-2017  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**PART- A**

Answer **ALL** the questions.

(10x2 = 20 marks)

01. Expand: STEM and CPD.
02. Comment on dioxane.
03. What is Freeze drying?
04. What is biopsy?
05. Comment on metachromasia.
06. Comment on vital staining.
07. What is collagen?
08. What is photomicrography?
09. What is lake?
10. Distinguish between SEM and TEM.

**PART- B**

Answer any **Four** questions.

(4x10 = 40 marks)

11. Give an account on cold knife method and its applications.
12. Describe the working principle of SEM.
13. Give an account on fluorescent microscope and its applications.
14. Explain the procedure involved in extraction and mounting of soil microarthropods.
15. Classify lipids and describe Oil Red O method
16. Classify proteins and describe Ninhydrin Schiff method.

**ART- C**

Answer any **Two** questions.

(2x20 = 40 marks)

17. Explain the procedure involved in the dry mount of insects.
18. Describe the different steps involved in Paraffin Microtomy.
19. What is an Ultramicrotome? Describe the different steps involved in Ultramicrotomy?
20. Describe Autoradiography and its applications in biology.