LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2010

# ZO 1817 - HISTOCHEMISTRY & MICROTECHNIQUE

Date : 11-11-10 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)

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1. Comment on fixative.
2. What is cytophotometry?
3. Comment on biopsy.
4. What is quenching?
5. Comment on freeze drying.
6. What is lake?
7. Comment on dioxane.
8. Distinguish honing from stropping.
9. What is keratin?
10. Expand: CPD and STEM.

## PART – B

***Answer any FOUR questions. Each question carries TEN marks****.* **(4 x 10 = 40 marks)**

1. Explain the working principle of SEM.
2. Describe the procedure involved in mounting of soil microarthropods.
3. Write an account on cryostat and its advantages.
4. Classify carbohydrates and its detection by PAS method.
5. Give an account on insect kill bottle and pinning of insects.
6. Describe the working principle of fluorescent microscope.

## PART – C

***Answer any TWO questions. Each question carries TWENTY marks.* (2 x 20 = 40 marks)**

1. Describe autoradiography and its applications.
2. Explain the procedure involved in specimen preparation for TEM.
3. Give an account on the different steps involved in paraffin microtomy.
4. Write short notes on:
5. Classify proteins and describe Ninhydrin-Schiff method.
6. Classify lipids and describe Oil Red O method.

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