

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – MEDICAL LAB. TECHNOLOGY

FOURTH SEMESTER – APRIL 2010

ML 4811 - HISTOPATHOLOGY AND ESSENTIALS OF LAB

Date & Time: 20/04/2010 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

Answer **ALL** the questions

PART – A

10 x 2 = 20 Marks

1. What is vacuum embedding oven?
2. Define punch biopsy.
3. Enumerate the factors affecting fixation.
4. Differentiate dehydration from rehydration.
5. Comment on clearance angle.
6. Define refractive index.
7. Enumerate the methods of examination of tissues.
8. Differentiate dissociation from smear staining.
9. Mention the importance of agitation in tissue processing.
10. List down the characteristics of a fixative.

Answer any **FOUR** questions

PART – B

4 x 10 = 40 Marks

11. Elaborate in short handling of specimen.
12. Give an account on types of microtomes and their application.
13. Describe trimming and section cutting.
14. Give an account on section adhesives.
15. Write short notes on components of histopathology laboratory.
16. Give an account on decalcification.

Answer any **TWO** questions

PART – C

2 x 20 = 40 Marks

17. Describe in detail different steps involved in tissue processing.
18. Explain the working and importance of cryostat with neat diagram.
19. Give an account on quality control.
20. Write an essay on staining.
