



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – MEDICAL LAB TECHNOLOGY

FOURTH SEMESTER – APRIL 2016

ML 4811 - HISTOPATHOLOGY AND ESSENTIALS OF LAB

Date: 21-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Answer ALL the questions

PART A

10 x 2 = 20 Marks

1. Differentiate biopsy from autopsy.
2. Write the principle of Beer-lambert law.
3. List out the different types of embedding media.
4. Differentiate molar and normal solutions.
5. Name the different types of bevel.
6. What is autolysis?
7. Differentiate infiltration from impregnation.
8. Enumerate the uses of anticoagulants.
9. Comment on vital stains.
10. Distinguish dehydration from clearing.

Answer any FOUR of the following

PART B

4 x 10 = 40 Marks

11. Give an account on handling and reception of histological specimens.
12. Elaborate quality control and quality assessment.
13. Discuss the properties of formalin fixative.
14. Enumerate the problems encountered during section cutting.
15. Discuss the ideal laboratory set up and its effective organization.
16. Describe the different types of microtome knife with suitable diagram.

Answer any TWO of the following

PART C

2 x 20 = 40 Marks

17. Explain cryostat sectioning.
18. Give an account on automated tissue processing.
19. Write the principle, procedure and histological importance of H&E staining.
20. Describe the different types of microtomes.
