

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



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

**SECOND SEMESTER – APRIL 2022**

**PZO 2601 – HISTOCHEMICAL TECHNOLOGY**

Date: 24-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**Part-A**

**Answer ALL the questions**

**(10×2=20 Marks)**

1. Draw the Methyl Green structure.
2. What is Cryostat and mention its types?
3. Comment on factors affecting fixation.
4. Define histochemistry ?
5. Draw the component of Amino acid.
6. What is PAS ? State its principle.
7. Mention the use of Berlese funnel trap?
8. What are Fluorophores?
9. Comment on embedding.
10. What is Electron Microscopy?

**Part-B**

**Answer any FOUR questions**

**(4×10=40 Marks)**

11. Write the principle, methods and applications of Sakaguchi Test.
12. Describe autoradiography technique
13. Differentiate SEM and TEM with suitable diagram.
14. Explain the different Types of Microtome.
15. Give an account on Sudan Black B Staining method
16. Describe the insect killing bottle.

**Part-C**

**Answer any TWO questions**

**(2×20=40 Marks)**

17. Explain the proteins– Ninhydrin Schiff method (Amino groups) in detail.
18. Elaborate the principle and steps involved in animal tissue processing.
19. Explain the various methods of extraction of nucleic acid.
20. Discuss the principal, working, and applications of Fluorescence microscope in detail.

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