

QP Code: 202384

Reg. No.....

**Second Year M.Sc. MLT Degree Regular/Supplementary Examinations  
November 2019  
(Pathology)**

**Paper VI - Laboratory Organization, QC and Recent Advances in Pathology**

**Time: 3 hrs.**

**Max. marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(10x10=100)**

1. Uses of a cryostat in the histopathology laboratory
2. Discuss the principles involved in flow cytometry - with examples
3. External quality assurance systems (EQUAS) in haematology
4. Automation in urine analysis - recent advances
5. Types of automatic microtomes - advantages and disadvantages
6. What do you understand by the terms "annual maintenance contract (AMC)" and "comprehensive AMC" of lab equipments. What is the difference.
7. Discuss the applications of Fluorescent In Situ Hybridization (FISH)
8. Discuss the advantages and disadvantages of an automatic immuno-stainers
9. What do you understand by "cord blood banking"- enumerate its potential uses
10. Preparation of a safety manual for the histopathology laboratory

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