

D 131300

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2025**

(CBCSS)

Forensic Science

**FSC 1C 04—LABORATORY QUALITY MANAGEMENT, RESEARCH METHODOLOGY
AND STATISTICS**

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any *four* of the following. Short Answer Type Questions. Weightage 2 :

- 1 What is 'Quality' ?
- 2 Give any *two* aspects of NABL.
- 3 Why is Validation methods important in a Forensic Science Laboratory ?
- 4 Give the methods for the evolution of standards within a laboratory.
- 5 What is the meaning of impact factor of journals ?
- 6 What is Plagiarism ?
- 7 State the Bayes theorem of probability.

(4 × 2 = 8 weightage)

II. Answer any *four* of the following. Short Essay Type Questions. Weightage 3 :

- 8 What are 'Working Standards' ? Give an example.
- 9 Give the need for proficiency testing.
- 10 Write a brief on 'Safety Systems'.
- 11 What is the importance of ISO/IEC 17025 ?
- 12 Delineate the processes involves in review of literature.

Turn over

- 13 List out various measures of central tendency. Calculate Standard deviation for the data given below :

Class Interval	:	11-13	14-16	17-19	20-22	23-25	26-28
Frequency	:	3	5	9	4	3	1

- 14 Differentiate between regression and correlation. Explain various types of correlational techniques.

(4 × 3 = 12 weightage)

III. Answer any *two* of the following. Long Essay Type Questions. Weightage 5 :

- 15 Describe the role of Quality Manager in a Forensic Science Laboratory.
- 16 What is Laboratory Information Management System ? Depict a framework for State Forensic Science Laboratories.
- 17 Describe the questionnaire method as a data collection technique, highlighting its merits and demerits.
- 18 What is ANOVA ? Following are the crimes reported in 3 groups. Calculate the F value for the data given below and comment on its significance (Note-F at .05 level = 4.26)

Group A	Group B	Group C
4	8	5
6	6	7
5	7	6
7	9	8

(2 × 5 = 10 weightage)