

D 52810

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2023**

(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 Write a short note on LIMS.
- 2 Briefly write on “methodology” in research.
- 3 Discuss on purchasing and inventory management in line with LIMS in an analytical laboratory.
- 4 What do you understand by the term “process control” in an analytical laboratory ?
- 5 What is longitudinal research ?
- 6 Define Statistics and describe the importance of Statistics.
- 7 Define Probability.

(4 × 2 = 8 weightage)

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

- 8 Discuss on occurrence management
- 9 Write on the need for analysis before acquisition of LIMS
- 10 Write a brief note on Action research
- 11 Briefly explain about laboratory assessment for quality management
- 12 Write on system analysis and design in LIMS.

Turn over

2

13 Define probability of Type I error, probability of Type II error, level of significance and power of the test.

14 Find the Geometric mean and Harmonic mean of the following data :

X : 4 6 9 11 15

(4 × 3 = 12 weightage)

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

15 Write in detail about types of research

16 Explain about the laboratory quality management in an analytical laboratory.

17 Discuss in detail about work flow in different types of laboratories.

18 Explain different types of graphical representation of frequency distribution through example.

(2 × 5 = 10 weightage)