

QP CODE: 26019333



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc STATISTICS

ELECTIVE - ST800402 - STATISTICAL QUALITY CONTROL

2019 Admission Onwards

E8E8851D

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is Quality Control?
2. What are the control limits of R chart?
3. Explain attribute control chart.
4. Explain control chart for number of defectives.
5. How will you interpret the result in c chart?
6. Give the advantages and disadvantages of exponentially weighted moving average chart.
7. Define attribute sampling plan.
8. Explain sequential sampling plan.
9. Describe Average Outgoing Quality curve and Average Outgoing Quality Limit.
10. Explain variable sampling plan.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain mean chart.
12. Explain u chart and how will you interpret the result.





13. Explain the operating characteristics curve of a control chart.
14. Describe modified control chart.
15. Define cumulative sum (CUSUM) chart and explain V mask procedure.
16. Explain double sampling plan.
17. Explain Average Sample Number(ASN) function and ASN Curve of double single sampling plan.
18. Give the sampling plan for a single specification limit with known variance.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Describe moving average control chart and give its advantages and disadvantages.
20. How will you study the process capability of a production process?What are the important indices for measuring the process capability.
21. Describe Single Sampling Plan.
22. What are sampling plans by variables? Give the assumptions under which such plans are defined?Explain the approaches of variable sampling plans with a specified OC curve.

(2×5=10 weightage)

