

Roll No.

--	--	--	--	--	--	--	--

25-ST-42

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
MAY - JUNE 2025**

STATISTICS
Paper - II
[Statistical Quality Control]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Explain control charts for attributes in detail.

OR

What do you understand by R-Chart ? Obtain its control limits and also its O.C. and ARL function.

Q. 2 Explain modified control charts with their advantages. Also distinguished between Shewhart and Cusum chart.

OR

Discuss economic design of control charts.

Q. 3 What do you understand by Sampling Inspection Plan ? Explain their different types with their purpose.

OR

Discuss sampling plans by variables in detail.

Q. 4 What do you understand by Curtailed Sampling Plans. Explain their applications also write their advantages and disadvantages.

OR

Write a short note on the following -

i) CSP-A

ii) CSP-B

P.T.O.

Q. 5 Discuss Six-sigma with the following points -

- i) Meaning and Origin.
- ii) Importance or uses.
- iii) Applications.

OR

Write a short note on implementation of six - sigma with their advantages and disadvantages. Also discuss good environment / conditions for six-sigma.

—————○—————