

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai — 600 044.

B.Sc.(Statistics) END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - VI

20USTCT6014 - Statistical Quality Control

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. List the dimensions of quality.
2. What are variable control charts?
3. Explain the purpose of control charts for attributes?
4. Write short notes on a) Producer's risk. b) Consumer's risk.
5. Compute the OC function of the Sequential Sampling Plan.
6. Find the control limits of sigma chart.
7. Describe and Interpret P chart.
8. Explain single sampling plan.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Appraise the structure of 3σ and Six - Sigma organisation.
10. Compute the control limits of \bar{X} and R chart.
11. Determine the control limits of the number non - conforming control chart.
12. Compute the OC curve , ASN and ATI of Double Sampling Plan.
13. Examine the Sequential Probability Ratio test.
