LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034	
B.SC.DEGREE EXAMINATION - STATISTICS	
16UST6MC03/ ST 6608 – STATISTICAL OUALITY CONTROL	
Date: 10-04-2019 Dept. No.	Max. : 100 Marks
Time: 09:00-12:00	
SECTION -A (10 x 2 -20 Marks)	
1 What is meant by prevention cost?	$(10 \times 2 = 20 \text{ Warks})$
2 Define total quality management	
2. Define foreveney distribution	
<ol> <li>Define frequency distribution.</li> <li>Define automatic state and loof plat.</li> </ol>	
<ol> <li>Point out any two uses of stem and lear plot.</li> <li>Define statistical grapheses</li> </ol>	
5. Define statistical process.	
6. Write the control limits for R chart.	
7. Give the ways to represent cusums.	
8. Define process capability analysis.	
9. Write any two advantages of acceptance sampling.	
10. Define double-sampling plan.	
SECTION –B	
Answer any FIVE questions:	(5 x 8 =40 Marks)
11. Write short notes on statistical methods for quality control and improvement.	
12. Discuss on quantile plot.	
13. Explain the need for management of product quality.	
14. Describe the construction of $\overline{X}$ and S chart.	
15. Write short notes on acceptance sampling.	
16. Write about Box plot technique.	
17. Explain the construction of p chart using control limits based on average	ge sample size.
18. Write short notes on productivity improvement.	
SECTION –C	
Answer any TWO questions:	(2 x 20 =40 Marks)
19 (a)Explain the construction of np chart	

- 19. (a)Explain the construction of np chart.
  - (b) State the benefits of Statistical quality control.
- 20. (a) Discuss about stem and leaf plot with an example.
  - (b) Write down the applications of P and C chart.
- 21. (a) Distinguish between Shewart control chart and cusum control chart.(b) Explain the sequential sampling plan.
- 22. (a) Explain single sampling plan for attributes.
  - (b) Write down the merits and demerits of acceptance sampling.

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