17/05/2019

Roll No. ...

37057

Printed Pages: 2

BT-7/M-19

STATISTICAL QUALITY CONTROL AND RELIABILITY

Paper-ME-405 E

Time allowed: 3 hours]

[Maximum marks: 100

Note: Attempt any five questions, selecting at least of one question from each unit.

Unit-I

- 1. Write briefly on the contributions of any two quality gurus towards development of the concept of quality. What is a quality circle? 20
- 2. Briefly describe:
 - (a) Factors affecting quality

10

(b) Implementation of TQM 10

Unit-II

- Write briefly on Pi chart and U charts. Also discuss the 3. sensitivity of p chart. 20
- Draw a suitable control chart for the given data: 4.

Γ	Item No.	1	2	3	4	5	6	7	8	9	10
ľ	No. of Defects	5	6	3	1	2	6	8	7	9	3 .

Unit-III

- downloaded from How are sampling plans selected? Describe the concept of multiple and sequential sampling. 20
 - Write briefly on:
 - Acceptance number and its significance (a)

4

(b) Acceptance sampling by attributes 8

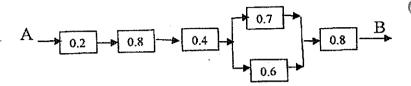
(c) Acceptance sampling by variables 8

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Turn over

Unit-IV

- Write briefly on: 7.
 - 10 Factors affecting reliability. (a) 10
 - (b) Availability and Maintainability.
- Discuss the ways to control reliability during manufacture. 8. Calculate the reliability of the system shown below: 20



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