

26/11/13

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.B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013

PRINTING TECHNOLOGY BRANCH

SEVENTH SEMESTER

PT9028 QUALITY CONTROL IN PRINTING

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What are the processes involved in quality planning?
2. Enumerate any four dimensions of quality with respect to service.
3. List the four statistical control tools that are useful in identifying the problem.
4. Differentiate Alpha and Beta errors.
5. What is material control?
6. Mention some specifications for plates to maintain incoming quality.
7. Write the relationship between screen ruling and dot gain.
8. What do you mean by process variability?
9. Name the type of curl that occurs due to two sidedness of paper.
10. How the image fit targets are designed and used?

Part – B (5 x 16 = 80 marks)

11. Describe the various cost involved in setting up a quality programmes and also brief the management responsibilities.
12. a) Calculate the control limits and draw and explain the i) mean and range chart ii) mean and S chart.

Sample	1	2	3	4	5	6	7	8	9	10
Unit 1	6.9935	7.0271	6.9838	7.0236	6.9912	6.9461	7.1086	6.9972	6.9562	6.9993
Unit 2	7.0012	6.9932	7.0024	6.9789	7.0072	6.9483	6.9947	7.0176	7.0533	7.0005
Unit 3	6.9992	6.9815	7.0124	6.9994	7.0344	6.9494	7.0025	6.9925	6.9949	7.0034

OR

- b) Discuss in detail about any four statistical process control tools.
13. a) i. Explain how the sampling and inspection is important to improve quality and reduce waste in the printing process. (8)
ii Write a short note on different sampling techniques.(8)

OR

- b) Write necessary specifications, testing and handling of paper and blanket used in a printing industry in detail

