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**B.E. / B.Tech. (Full Time) ARREAR SEMESTER EXAMINATIONS, NOV/DEC 2012**

**PRINTING TECHNOLOGY BRANCH**

**FIFTH SEMESTER**

**PT9028 - QUALITY CONTROL IN PRINTING**

**(REGULATIONS 2008)**

Time : 3 hrs

Max Mark:100

**ANSWER ALL QUESTIONS**

**Part – A (10 x 2 = 20 Marks)**

1. Write the importance of Quality.
2. What are the fixed costs?
3. Why we need inspection for incoming material?
4. Write down the tests you recommend for blanket to assure quality?
5. How the material control helps in quality control?
6. List down the various statistical control tools.
7. Develop a quality control checklist for e-publishing.
8. Justify the need for process control?
9. Give the advantages densitometer?
10. How the GSM differs with basis weight?

**Part – B (5 x 16 = 80 Marks)**

11. a. Explain the various statistical tools that we use in maintaining the quality programme in printing industry.
12. a. Discuss the importance of a quality control programme for a printing house with a brief specification of each step in detail.

**or**

b. Write the various cost involved in maintaining quality programme .

13. a. Write necessary specifications , testing and handling of plate and rollers used in a printing industry in detail

**or**

- b. i) Define: Sampling. Derive the need for sampling comparing the spoilage due to defective lots (8)
- ii) Draw the graph for RUN, LEVEL SHIFT and CYCLES and explain (8)

14. a. Describe the salient features of any six tone transfer control elements of quality control aids in detail.

**or**

b. Explain the following.

i. Surface properties of paper (12)

ii. Diffusion exposure (4)

15. a Write a short note on following.

i). Durometer (4)

ii). Spectrophotometer (6)

iii) Tack meter (6)

**or**

b. What are quality control aids, why it is important write the salient features of any 5 quality aids in detail.