

Bachelor Of Printing Engineering Examination,2017
(Fourth Year Second Semester)

QUALITY CONTROL IN PRINTING INDUSTRY

Time: 3Hours

Full Marks:100

Answer any **five** of the following questions:

1. a) What is SIPOC process map? Discuss about the methodologies in six sigma?
 b) Name any three Print performance test for film?
 c) Why heat resistance test is necessary for film printing?
 d) Explain the differences between the In control and out-of control. [(3+7)+1+5+4=20]

2. a) What are the parameters considered for ink fly?
 b) Briefly describe about Cause and Effect diagram with example.
 c) What are the benefits of scatter diagram? [5+10+5=20]

3. a) Discuss about Process Analysis. What is the goal of Quality control in Industry?
 b) After a test following samples are obtained:

3	6	6	5	13	9	10	11	6	11
5	8	8	7	9	14	4	6	11	12

 Explain with quality control chart plot. [5+5+10=20]

4. Discuss about:
 a. Preflight
 b. FMEA
 c. Quality Control and Quality Assurance
 d. Slip resistance [5+5+5+5=20]

5. a)What is the difference between defect prevention and defect detection?
 b) Explain remote proofing document management.
 c) What are the benefits of using 80-20 rule? [5+10+5=20]

6. a) What is the utility of Job ticketing and tracking in digital workflow?
 b) Briefly explain about Raster Image Processing.
 c) What are the basic steps in problem solving? [5+10+5=20]

7. a)What are the multi-dimensional approach of six sigma?
 b)How does midtone dot gain variation effect on offset quality control?
 c) What are the key elements of six sigma?
 d) Discuss about Improve phase of Six sigma [3+5+5+7=20]

8. a)Why is crease resistance test required for board printing?
 b)What is the role of statistical process control tool in quality control?
 c) How do the foaming and pH variation control the quality of water based ink?
 d) Discuss the rheological parameters of oil inks for short term testing . [4+3+6+7=20]