

Total No. of Questions : 6]

SEAT No. :

P1087

[4659] - 190

[Total No. of Pages : 3

B.E. (Printing)

**a - QUALITY CONTROL TECHNIQUES IN PRINTING
(2008 Course) (Elective I) (Semester - I) (408281)**

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate books.*
- 3) *Answer Any three questions from each section.*
- 4) *Neat diagrams must be drawn wherever necessary.*
- 5) *Figures to the right indicate full marks.*
- 6) *Assume suitable data, if necessary.*

SECTION - I

- Q1)** a) List out Quality Characteristic in detail. **[16]**
b) Explain in short the concept of quality control considering any one printing process.

OR

- a) Explain Quality cost with suitable example of each type. **[16]**
b) Define the term quality & write down the need of Quality Inspection.

- Q2)** Eight consecutive lots of printed sheets received from a vendor were inspected by sampling process. The sample size was varied. The number of defectives in each sample recorded as under. **[18]**

Sample No.	1	2	3	4	5	6	7	8
Sample Size	130	125	60	100	180	150	80	70
No of Defectives	4	3	0	2	4	1	2	3

Construct a control chart for Fraction defective & describe whether the printed sheets are in control or not.

OR

P.T.O.

For a sampling plan determine probability of acceptance of following Percentage defectives, also draw a OC Curve [18]

$N = 1000, n = 60, c = 1$

Sr. No	1	2	3	4	5	6
Percentage Defective	0.4%	0.8%	1%	2%	4%	6%

Q3) a) Explain in detail Job Production & Mass Production. [8]

b) Describe Lean manufacturing system in detail. [8]

OR

a) Explain in detail world class Manufacturing. [8]

b) Explain computer Integrated Manufacturing system. [8]

SECTION - II

Q4) a) Explain any two optical & physical properties of paper. [9]

b) Explain the need of checking viscosity of ink & factors on which viscosity is depending. [9]

OR

a) Explain following properties related to Ink (any three). [9]

i) Flow

ii) Color

iii) Opacity

iv) Adhesion

b) Explain Inventory management in Printing Industry. [9]

Q5) a) Explain need of monitor profile with respect to obtained quality printing. [8]

b) Explain Raster Image processing in detail. [8]

OR

- a) Explain Offset Lithography process control with help of profile creation.[8]
- b) Explain any four file formats. [8]

Q6) Explain the process of press standardization & characterization for Gravure printing. [16]

OR

Describe factors to be considered for press finger printing of Flexography Printing. [16]

