

N.B.

- Question No.1 Compulsory.
- Answer any three from the remaining.
- Figures to the right indicate full marks
- Give illustrations and examples wherever necessary

1 a) From the data below find the Dot area, thereby Dot gain and Print contrast. Draw the Print characteristic curve. Take Milton-pearson factor to be 1.7 (10)

Tone Value	Density
10	0.2
20	0.3
30	0.5
40	0.63
50	0.7
60	0.85
70	1
80	1.1
90	1.25
100	1.4

b) Explain Density, Color Difference, Hue error and Contrast with formulae. (10)

2 a) Explain the physiology of Human eye and how it works in colour perception. (10)

b) Explain Hue, Saturation and Value (5)

c) Explain Opponent Process theory of colour vision (5)

3 a) Explain Jones diagram. Compare it with the print characteristic curve. (10)

b) Explain UCR, GCR and UCA with neat diagrams. (10)

5 a) Explain gamut mapping algorithms with neat diagrams. (10)

b) Explain CCD sensors with their applications. (5)

c) Compare Tiff and Jpeg. Enlist their Pros and Cons (5)

6 a) How to make printer profile for Package printing? Explain in detail. (10)

b) Briefly explain 4Cs and Monitor Profiling process. (10)
