Duration: 03 Hrs   **Total Marks:** 80

NB: 1. Question **No. 1** is **compulsory.**
          2. Attempt **any three** questions from remaining **five** questions.
          3. Indicate **question no.** properly.

Q.1   a) With a neat diagram explain sheetfed cutting methods.   5
      b) Write short notes on 1. Embossing 2. Foiling.   5

      c) Write a note on PS labels .
                                                                                          5

      d) Explain the terms: ink opacity, ink transparency, ink coverage, ink tack.
                                                                                          5

Q.2   a) Explain different cutting methods used in web-fed with diagram.   5
      b) Suppose a printer has duplex sheet which is 100% coated   10
         (flood coating).suppose size of sheet is 18×36inches.
         Cost of coating of 1200sq.ft is Rs.750.
         Find coating cost for 12,000 copies coated both sides.

      c) Explain plate proofing and its different types   5

Q.3   Draw symbolic representation for the following finishing processes: 5
      1.Printing. 2.Unloading. 3. Palletezing 4.Buffer storage 5. Trimming .

      b) Job: magazine   10

         No. Of copies: 10,000
         close size: 10×10
         Size : A4, 4C×4C
         Mill sheet =printsheet=22×32
         No.of pages: 64
         Cover: 170gsm art paper
         Lamination: Both sides, 1.64/impression
         Paper cost: Rs.7.93
         Printing cost: Rs.0.82/impression
         Inside: 130gsm art paper
         Paper cost : Rs.4.19
         Printing cost : Rs.0.82/impression
         Plate cost : Rs.400/plate
         Binding: Perfect, unit cost: Rs.2.00
         Find total cost.

                                                                                          5
      c) Write a possible ink sequence for 4,5 and 7 color printing jobs.

Q.4 a) Write short note on: 2. Thermal transfer printing and Direct transfer .   5
        b) Explain punching, die cutting and perforations .   5
        c) Explain the terms :bundling, gathering and collating marks.   5
        d) Explain production of die-cutting with the help of symbolic representation.   5

Q.5 a) Give a flowchart representation for operations for the production of Magazine.   5
        b) Explain types of Page layouting.   5
        c) A book of 80,000 copies of 128 pages having trim size A5 printing on a web width, the reel width of 640mm and cut off 450mm and of 80gsm paper.
Find the total weight of the reel required for the job.   10

Q.6 a) Explain folding methods in detail.   5
        b) How to choose adhesive and facestock material based on product for labels.   5
        c) Find out the weight of reel of paper having width, outer and inner diameters as 63 cm, 100 cm and 15 cm respectively. The substance of the paper is 80 and its caliper is 1/12 mm.   10

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