24520

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3 Hours / 70 Marks

15 minutes extra for each hour

Seat No. ☐☐☐☐☐☐☐☐

Instructions – (1) All Questions are *Compulsory.*

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Figures to the right indicate full marks.

(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any <u>FIVE</u> of the following: 10

a) Enlist two types of cost.

b) What is the importance of Job Card? State two points.

c) What is meant by maximum utilization of available resources.

d) State two advantages of ISO paper size.

e) State two factors that need to be considered for selection of anilox roller.

f) State the ink consumption formula.

g) List two types of containers.

2. Attempt any <u>THREE</u> of the following: 12

a) Differentiate between costing and estimating upto four point.

b) State the GST rate for

   i) Carton

   ii) Envelops

   iii) Labels

   iv) Plain paper

   c) Describe the stages in sequence for tooth paste carton manufacturing.

   d) Compare ISO and British paper sizes (four point).

3. **Attempt any <u>THREE</u> of the following:**   **12**

   a) State the paper size for
      i) A3
      ii) A5
      iii) A2
      iv) A4

   b) Calculate the depreciation by straight line method. A printing company purchases machinery for Rs. 1,00,000 and the useful life of the machinery is 10 years and the residual value of machinery is 20,000.

   c) Describe the four contents of the job card for screen printed label job.

   d) State four factors affecting costing of gravure cylinder electroplating stage.

4. **Attempt any <u>THREE</u> of the following:**   **12**

   a) Calculate the cost of eight flexo plates A having size of $6'' \times 15''$ inches image per plate. Negative cost - 1.5 Rs./square inch. Plate processing cost is 15 Rs./square inch.

   b) State any four factors affecting output rate of machines used for finishing operations.

   c) How much paper in 61 cm × 88 cm will be required for the printing of 20,000 booklets in 210 mm × 297 mm size. Assuming that each booklet contains 24 pages.

   d) State the stages in sequence for shampoo sachet by gravure printing.

   e) How many board of $25'' \times 30''$ will be required for making of covers of 2000 Books in Demy octavo size. Assume wastage allowance as 2%.

5. **Attempt any __TWO__ of the following:**   **12**

   a) Elaborate on the factors that determine the selling price of the product. Describe any three factors.

   b) Prepare a proforma for tender for printing and delivering of 2,00,000 color certificates.

   c) Elaborate on the need of planning and sequencing of operations.

6. **Attempt any __TWO__ of the following:**   **12**

   a) Elaborate on the factors affecting estimation of job. Describe any three factors.

   b) Calculate the quantity of black ink required for 25000 copies of 16 pages booklet of A5 size each page with print area 200 cm^2. There are 10 pages printed in black ink from halftone pictures and 6 pages in type matter in black. The booklet is printed by offset process on a coated art paper.

   c) Calculate the cost of palleting for 1500 box having 6″ × 8″ × 4″ size. Weight - 2.5 kg/box, Each pallet can carry 750 kg and pallet charges - Rs. 580/pallet.

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