

24520

23242

3 Hours / 70 Marks

Seat No. 

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- 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) Assume suitable data, if necessary.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. **Attempt any FIVE of the following:** **10**
- a) List two type of cost.
  - b) Write full form of 'GST'.
  - c) List four elements whose cost to be considered while costing book printing.
  - d) Convert following number of sheets into ream
    - i) 27500
    - ii) 8000
  - e) State SPANKS formula.
  - f) List four post printing operations.
  - g) State two units in which printing papers are purchased.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain time rate system in estimating.
  - b) What is job card? Draw any job card format for offset printing.
  - c) Write stages for screen printing on T shirt.
  - d) List any four ISO paper sizes.
- 3. Attempt any THREE of the following:** **12**
- a) Differentiate between costing and estimating upto four points.
  - b) If Sachin gave order for 1000 visiting cards printing at rate of Rs. 4 per card and 1000 envelope of Rs. 5 each. He received the bill from printer in which on total cost 18% GST was added. How much, he has to pay finally?
  - c) Write stages in sequence for sachet printing on polymer by gravure method.
  - d) Write the stages in sequence for notebook printing job.
- 4. Attempt any THREE of the following:** **12**
- a) Label size for screen printing is 10" × 15". The roll of substrate is available in 32" width × 357" length. Find out number of rolls required for printing of 7000 labels.
  - b) Find out weight of 20 reels of paper if gsm is 60 width is 400 mm and length 200 m.
  - c) Plate making charges for flexography are Rs. 2.5 per sq.cm. Find out the cost to make 25, A4 size plates.
  - d) State four factors to be considered to calculate the cost of case making.
  - e) State four factors to be considered to calculate the cost of transportation of newspaper.

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

- a) State three factors each to
  - i) Decide selling price
  - ii) Profitability
- b) Prepare a sample job card for label printing job by flexography.
- c) A book has 256 pages of A5 size, 10,000 quantity. It is to be printed on 48 gsm A2 size paper. Calculate number of reams and weight of A2 size paper required for this job. Do not consider wastage.

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

- a) For one roll, density of polymer is  $1.4 \text{ g/cm}^3$ , caliper 0.005 cm width 2 m, length 1000 m. Calculate weight in kg of 100 such rolls.
  - b) Describe 3 factors to be considered for choosing anilox roll in flexography for given job.
  - c) Describe the procedure or steps to calculate the number of boards required for preparing 10,000 cartons.
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