

# 24520

**22223**

**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 types of cost.
  - b) List contents of tender for printing visiting card
  - c) List stages of sequence for printing book on demand by digital printing.
  - d) List factors considered in estimating of visiting card printing.
  - e) List purpose of nickel plating to gravure cylinder.
  - f) Differentiate upto 2 points - fixed and variable cost.
  - g) Differentiate upto 2 points - tender and quotation.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) List factors affecting profitability.
  - b) Draw a work instruction ticket and explain its contents.
  - c) Describe stages of printing sachet on polymer by gravure printing.
  - d) Estimate total weight of 5000 sheets of AO, BO and CO paper. GSM of paper is 80.
- 3. Attempt any THREE of the following:** **12**
- a) List any six British paper sizes.
  - b) Compare between time rate and work rate system.
  - c) Explain meaning of GST and write rates of raw material used in offset printing.
  - d) Describe contents of flexography photopolymer plate making cost estimation.
- 4. Attempt any THREE of the following:** **12**
- a) Calculate flexo plate making cost for 4-Col. Set if plate size = 10"×15", negative = Rs.1.25/sq.inch plate making = Rs.15/sq.inch.
  - b) Calculate A2 size reams required to print 35,000 copies of 80-page A5 size book.
  - c) Estimate black ink quantity for printing 30,000 copies of A5 size book having print area of 300cm<sup>2</sup>. Paper used in offset printing is coated art and printing is in heavy illustration form.
  - d) Explain stages of printing newspaper by web offset printing.
  - e) A0 size poster is laminated with 25 micron polyethene having density of 0.9 gram/cm<sup>3</sup>. Calculate increase in weight of poster.

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

- a) A CTP machine's depreciation rate is 60% on book value. Calculate its book value at the of 5<sup>th</sup> year if it was purchased at Rs.4,00,000/-
- b) Describe four important contents in tender form.
- c) Elaborate factors considered for sequencing of job.

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

- a) State formula used to estimate ink and list constant and varying parameters therein.
  - b) Explain contents of gravure cylinder cost estimation.
  - c) Describe types of pallets different.
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