

22662

24225

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 answer with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) 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) Enlist any four functions of estimating.
 - b) Define “Selling price”.
 - c) State the uses of cost benefit analysis.
 - d) What is value analysis?
 - e) Define ‘obsolesce’.
 - f) State the formulae for machining time for drilling.
 - g) How material cost is considered in foundry shop?

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- 2. Attempt any THREE of the following:** **12**
- a) Explain customer based pricing method.
 - b) Differentiate between fixed overheads and variable overheads. (Any four points)
 - c) Estimate the machine time to turn a M.S. bar of 3 cm diameter down to 2.5 cm for a length of 10 cm in a single cut. Assume cutting speed = 30 m/min. and feed = 0.4 mm/rev.
 - d) Explain the estimating procedure in detail.
- 3. Attempt any THREE of the following:** **12**
- a) Why costing is essential in industrial control?
 - b) Define –
 - i) Factory overheads
 - ii) Selling overheads.
 - c) Explain the labour element of cost.
 - d) Enlist the factors to be considered for controlling overhead cost.
- 4. Attempt any THREE of the following:** **12**
- a) Explain profitability analysis in detail.
 - b) Differentiate between value analysis and value engineering. (Any four points)
 - c) What is standard cost? Enlist its any four advantages.
 - d) Estimate the time required for making an open tank of size $40 \times 40 \times 40$ cm by gas welding. Size of the sheets used is $40 \times 40 \times 0.3$ cm. Welding is to be done on inner sides only. Assume fatigue allowance to be 5%.

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

- a) A machine is purchased for Rs. 40,000. The estimated life of machine is 15 years and scrap value Rs. 15,000. If the rate of interest on the depreciation fund is changed at 5%. Calculate the rate of depreciation by sinking fund method.
- b)
 - i) Define pattern.
 - ii) Enlist the applications and merits of cost sheet.
- c) State the importance of balance sheet in a manufacturing industry. Explain its major elements.

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

- a) What is simple and compound interest? Calculate the compound amount when Rs. 5,000 are lent at 9.5% interest rate for 4 years, being compound semi-annually.
 - b) Explain replacement analysis in detail. Enlist its any four merits.
 - c) Write the procedure of estimating the cost of wooden pattern for sand moulding.
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