

Total Pages : 3

V/SEM/MECH/2014(W)

(2)

INDUSTRIAL ENGG

[Theory-2]

Full Marks : 80

Time : 3 hours

Answer any five questions.

The figures in the right-hand margin indicate marks

- 1. (a) Define Work Study. 2
- (b) Explain different types of process chart with symbols. 6
- (c) Describe different types of allowances used in time study. 8
- 2. (a) Define Operation Research. 2
- (b) Write the steps for formulating Linear Programming Problem. 6
- (c) Using Graphical method solve their problem. 8

Maximize $z = x + 5y$
 s. to $5x + 6y \leq 30$
 $3x + 2y \leq 12$
 $x, y \geq 0$

(Turn Over)

- 3. (a) Define PERT and CPM. 2
- (b) Give a comparison between PERT and CPM. 6
- (c) A small Engineering Project consists of six activities namely P, Q, R, S, T, U, with duration of 5, 7, 6, 5, 4, and 4 days respectively. Draw the network diagram and calculate EST, LST, EFT, LFT and Float. Find the total project duration. 8
- 4. (a) What do you mean by Plant Location ? 2
- (b) Explain various features governing Plant Location. 6
- (c) Describe the procedure for plant lay out. 8
- 5. (a) Define Inventory. 2
- (b) Explain ABC Analysis of Inventory Control. 6
- (c) Usha Corporation has got the demand for particular parts at 10,000 unit per year. The cost per unit is Rs. 2 and its costs Rs. 36 to place an order and the processes delivery. The inventory carrying cost is estimated as 9% of average inventory investment. Determine (i) EOQ, (ii) Optimum number of order to be placed per annum (iii) Minimum total cost of inventory per annum. 8

V/SEM/MECH:2014 (W) 1h-2.IE

(Continued)

(3)

6. (a) Define types of cost. 2
(b) Describe elements of cost. 6
(c) Describe different types of over heads. 8
7. (a) Define Plant. 2
(b) What is the objective of plant maintenance ? 6
(c) Describe the duties, functions and responsibilities of plant maintenance department. 8
8. Write short notes (any two) : 16
(a) Master Scheduling
(b) TQM
(c) ISO 9000.

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