



Name :

Roll No. :

Invigilator's Signature :

CS/M.TECH(TT&CPT)/SEM-2/MTT-207/2012

2012

MANAGEMENT IN TEXTILE INDUSTRY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Graph sheet(s) will be supplied by the Institute on demand.

Answer any five questions. $5 \times 14 = 70$

1. What do you mean by productivity in textile industry ? Explain different types of productivity. Explain the factors that affect productivity. What do you mean by productivity in spinning and productivity in weaving ? $3 + 4 + 4 + 3$
2. What do you mean by breakeven analysis ? Explain the role of break-even chart as management tools. Explain the significance of use of break-even chart. Explain the factors that affect effective sales system. $3 + 4 + 4 + 3$
3. Explain different types of techniques of OR with their definitions. Explain the role of Linear programming as applied to textiles.

Solve graphically the L.P.P. :

Maximize $Z = 3x_1 + 4x_2$

subject to $x_1 - x_2 \leq -1$

$-x_1 + x_2 \leq 0$

$x_1, x_2 \geq 0$

$6 + 4 + 4$

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4. a) Solve the following L.P.P. by simplex method :

Maximize profit : $4x_1 + 3x_2$

subject to $2x_1 + x_2 < 30$

$x_1 + 2x_2 \leq 24.$

- b) What do you mean by basic solution ? Find all the basic solutions of the following equations :

$$x_1 + 2x_2 + 3x_3 + 4x_4 = 7$$

$$2x_1 + x_2 + x_3 + 2x_4 = 3. \quad 8 + 6$$

5. What is inventory ? What is purpose of it ? What is inventory control ? Mention types of inventory in a manufacturing process ? Why we want to hold inventories ? Why do we not want to hold inventories ? $2 + 2 + 2 + 2 + 3 + 3$

6. What is trade union ? What are the objectives of trade unions ? Define function of trade union ? Mention types of trade unions and problems of trade unions in India ?

$2 + 2 + 3 + 3 + 4$

7. Define motivation ? Why is it important ? What are the main types of motivation ? Discuss then briefly. Briefly describe theory-x and theory - y in theory of motivation. $3 + 3 + 3 + 5$

8. What is leadership ? Describe what makes a leader. Mention different characteristics of an effective leader. How leadership role in an industry can be strengthened ?

$2 + 4 + 5 + 3$

