Name :	
Roll No. :	Andrew (Y Encoded prod Excellent
Invigilator's Signature :	

CS/M.Tech(TT)/SEM-2/MTT-207/2011 2011

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.

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

- 1. What do you understand by industrial management ? Why is it essential for any organization ? Draw and describe a communication model. What are the different lapses found in a communication ? 2+2+6+4
- 2. Define leadership quality of a manager. What quality makes a manager a leader ? What are the characteristics of an effective leader ? 3 + 4 + 7

30195 (M.Tech) [Turn over



- 4. Explain breakeven concept of an industry. Explain the role of breakeven in industrial management. What are the limitations of breakeven ? 6 + 6 + 2
- 5. Explain the techniques of operation research. What are the essential characteristics of operation research ? Define basic solution and basic feasible solution. An animal feed company must produce 200 kg of a mixture consisting of ingredients X_1 and X_2 . The ingredient X_1 costs Rs. 3 per kg and X_2 costs Rs. 5 per kg. Not more than 80 kg of X_1 can be used and at least 60 kg of X_2 must be used. Find the minimum cost mixture (Graphically). 4 + 3 + 3 + 4

CS/M.Tech(TT)/SEM-2/MTT-207 /2011

A manufacturing company produces two types of product — 6. the super and regular. Resource requirement for production are given below in the table. There are 1600 hours of assembly worker hours available per week, 700 hours of point time and 300 hours of inspection time. Regular customers will demand at least 150 units of the regular type and 90 of the super types.

Product type	Profit Contribution	Assembly time	Point time	Inspection time
Regular	Rs. 50	1·2 hr.	0.8	0.2
Super	Rs. 75	1∙6 hr.	0.9	0.2

Formulate and solve the given LPP to determine the product mix on a weekly basis. 14

[Turn over