Total No. of Questions : 12]		SEAT No. :
P2258	[4758] -15	[Total No. of Pages : 3

T.E. (Mechanical)

INDUSTRIAL ENGINEERING AND TECHNOLOGY MANAGEMENT (2008 Course) (Semester - I)

Time: 3 Hours] [Max. Marks: 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate books.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
- 4) Assume suitable data, if necessary.

SECTION - I

- Q1) a) What is meant by scientific management? Explain in brief various functions of management.[8]
 - b) Define material handling. Explain the role of material handling principles in improving the productivity of a firm. [8]

OR

- Q2) a) Define the plant layout & plant location. What are various factors Involved in selection of site for good plant?[8]
 - b) Briefly discuss various leadership styles adopted in industry. [8]
- **Q3)** a) Define and explain what do you understand by industrial engineering? What is its importance? [8]
 - b) Discuss the two handed process chart in industrial engineering. [4]
 - c) What are therbligs? Give any six therbligs with symbols. [4]

OR

Q4)	a)	Define method study. Explain the procedure for method study.	8]
	b)	Explain productivity improvement methods for organization. [4]
	c)	Write a note on SIMO chart.	4]
Q5)	A manufacturing company requires 9500 units per year. Ordering Rs. 125 per order and carrying cost is 20%. Purchase price per Rs. 45.		
		Determine:	
		i) EOQ	
		ii) Optimum number of orders	
		iii) Total cost including acquisition of material	
	b)	What do you understand by Break-even analysis? Explain.	6]
	c)	Give the purpose of inventory control.	6]
		OR	
Q6) Write notes on (Any Three).		te notes on (Any Three). [1	8]
	a)	Zero based Budgeting.	
	b)	SIMO Chart.	
	c)	Aggregate Planning.	
	d)	ABC Analysis.	
		<u>SECTION - II</u>	
Q7)	a)	What is the difference between Engineering & Technology? (Write on 3 points). Also write a note on Technology Management.	aly [8]
	b)	Differentiate between product technology & process technology.	8]
		OR	
Q8)	a)	Explain the role of Government in Management and development Technology.	of [8]
	b)	Every coin has two sides-explain this with the help of Technolog development. Hence write whether it is good or bad for the progress?	

Q9) a)	With the help of proper example. explain Quality Function Deployment (QFD).		
b)	Write a note on Innovation and creativity with suitable examples.	[8]	
	OR		
Q10) a)	How invention is different than innovation?		
b)	Write a note on Technology monitoring in the industry.		
c)	What is Technology Forecasting? Explain any two methods of the with an example.	same [8]	
<i>Q11)</i> a)	For you as an engineer, write your SWOT Analysis.	[4]	
b)	Write a note on Technology strategy and Technology Transfer.		
c)	Write a note on		
	Technology Absorption and Technology Diffusion.		
	OR		
<i>Q12)</i> W ri	ite notes on following. (Any three).	[18]	
a)	IPR (Intellectual Property Right)		
b)	Growth curve.		
c)	Extrapolation		
d)	Morphological Analysis		
e)	Mission flow diagram.		
	Φ Φ		