

Total No. of Questions : 12]

SEAT No. :

P1369

[Total No. of Pages : 3

[4858] - 115

T.E. (Mechanical)

INDUSTRIAL ENGINEERING AND TECHNOLOGY MANAGEMENT

(2008 Pattern) (Semester - I)

*Time : 3 Hours]*

*[Max. Marks : 100*

*Instructions to the candidates:*

- 1) Answers to the two sections should be written in separate answer books.*
- 2) Answer any one question from 1&2, 3&4, 5&6, 7&8, 9&10 and 11&12.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right side indicates full marks.*
- 5) Assume suitable data, if necessary.*

**SECTION - I**

- Q1)** a) Discuss the characteristics of Management Science. [10]  
b) Explain Maslow's hierarchy of needs. [6]

OR

- Q2)** a) Explain in brief different types of plant layouts. [10]  
b) Write a note on "Leadership". [6]

- Q3)** a) What is productivity? What are different method to improve productivity? [10]  
b) What is time study? Explain its procedure. [6]

OR

- Q4)** a) What is Work sampling, Qualified worker, Rating and Standard time? Explain. [10]  
b) Discuss Method study in brief. [6]

**P.T.O.**

- Q5)** a) Discuss functions of PPC. [10]  
b) Discuss any two forecasting models. [8]

OR

- Q6)** Write short notes on any three of following : [18]  
a) CPM and PERT  
b) Break even analysis  
c) Inventory control  
d) ABC analysis  
e) Standard costing

### **SECTION - II**

- Q7)** a) Explain Importance of Technology on society and Business. [10]  
b) Discuss advantages of new technology. [6]

OR

- Q8)** a) Discuss evolution and growth of technology. [10]  
b) Discuss Intellectual Property. [6]

- Q9)** a) What do you mean by Technological Forecasting? Explain various techniques used in Technology Forecasting. [10]  
b) List the various methods of Technology Acquisition. Explain any two in detail. [6]

OR

- Q10)** a) Explain the following : [10]  
i) Technological Leadership  
ii) Technology Monitoring  
iii) Mission Flow diagram  
b) What do you mean by Technology Assessment? [6]

- Q11)** a) Explain the steps involved in formulating technology planning. [10]  
b) Explain the various key principles for developing technology strategy. [8]

OR

**Q12)** Write notes on any three of following : [18]

- a) Technology transfer
- b) IPR
- c) Technology adoption
- d) Technology diffusion
- e) Technology absorption

