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Total No. of Pages : 02

Total No. of Questions : 08

M.Tech. (PE) (E-II) (Sem.-2)

MANAGEMENT OF PRODUCTION SYSTEMS

Subject Code : PE-515

Paper ID : [E0452]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1 a) Explain systems concept and management.
- b) Illustrate in detail how system concepts are related to 'Planning', 'Control' and 'Information'.
- c) Explain various functional elements of a system.
- Q2 a) What do you mean by System analysis and problem solving.
- b) Describe mathematical and scientific models for system analysis.
- c) Explain in detail computerized techniques used for analysis.
- Q3 a) Why the need for systematic human relationships arose?
- b) Describe the needs for systems change and resistance to change.
- c) What are the behavioural consequences of system change?
- Q4 a) Illustrate increasing cost in distribution and production.
- b) Write a detailed note on service systems integration systems.
- Q5 a) Describe Program-management concept functional stage of program-management organizational medical ions.
- b) What is impact of advancing technology on society, industry, market and labour?
- c) Differentiate between Program and Project Management.

- Q6 a) Illustrate Production and Inventory Control Systems?
b) Explain Production, Inventory and Employment Control System?
- Q7 Explain the following in detail :
- a) Linear programming, and input output analysis.
 - b) Queuing monte carlo technique.
 - c) Simulation
 - d) Industrial dynamics
- Q8 a) Describe the analysis of complex, man-machine open system.
b) Illustrate '*Motivation I actor*' and '*Leadership factor*' in System Design.
c) What are the various human and social problems m system design? How system design is helpful in meeting these problems?