Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 08

M.Tech.(CAD/CAM) (E-III) (Sem.–2)

MANAGEMENT OF PRODUCTION SYSTEMS

Subject Code : ME-516

Paper ID : [E0879]

Time : 3 Hrs. Max. Marks : 100

INSTRUCTION TO CANDIDATES :

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

Q1 a) Define System. Illustrate systems theory and organization.

b) Explain various functional elements of a system.

c) Describe '*general systems theory*' and '*the system approach*'.

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) Describe in detail a total flow system and planning the transformations.

b) Illustrate increasing complexity in distribution and production.

Q5 a) Explain in detail different matrix in program management.

b) What is impact of advancing technology on society, industry, market and labour?

c) Differentiate between Program and Project Management.

d) Describe large scale integrating systems.

Q6 a) Describe in detail '*Management Cybernetics*' in controlling a manufacturing firm.

b) Explain in detail '*Enterprise Control Systems*'.

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 factor*' and '*Leadership factor*' m System Design.

c) What are the various human and social problems in system design? How system design is helpful in meeting these problems?