

II B. Tech II Semester Supplementary Examinations, April - 2021
MANAGEMENT SCIENCE
 (Com to EEE, ECE, ECC)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **FOUR** Questions from **Part-B**

PART -A

1. a) What is meant by Motivation? (3M)
- b) Write about EOQ. (2M)
- c) Describe job evaluation? (2M)
- d) What is importance of PERT and CPM? (2M)
- e) Explain Internal Environment. (2M)
- f) What is TQM? (3M)

PART -B

2. a) Organization is a tool for achieving enterprise objectives. Discuss (7M)
- b) What is the significance of Maslow's theory of hierarchy of human needs? (7M)
3. a) The following table gives the number of defects in a casting using used for making crank case of diesel engine. (7M)

| | | | | | | | | | | |
|-------------------|----|----|----|----|----|----|----|----|----|----|
| Casting No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Number of defects | 15 | 11 | 25 | 10 | 12 | 20 | 15 | 10 | 17 | 13 |

Construct appropriate control chart with the control limits and comment on the process.

- b) Explain the concepts of SQC and how you can construct control chart for variables. (7M)
4. a) Differentiate HRM and Personnel management. (7M)
- b) Explain the types of alternative distribution channels available to a manufacturing company. (7M)
5. a) Explain PERT and its importance in network analysis. What are the requirements for applications of PERT techniques? (7M)
- b) Compute earliest start and finish times, latest start and finish times and floats for the following project. (7M)

| | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Activity | 1-2 | 2-3 | 2-4 | 3-5 | 4-5 | 4-6 | 3-6 | 5-6 |
| Duration | 3 | 2 | 3 | 3 | 7 | 5 | 2 | 6 |

6. a) What do you understand by SWOT analysis? Discuss how it can be carried for industrial business concerns? (7M)
b) Explain briefly environmental scanning. What are its advantages and disadvantages? (7M)
7. a) Explain the steps in the evaluation of Enterprise Resource Planning. Discuss the commercial applications of ERP. (7M)
b) State the need and importance of supply chain management and explain the problems addressed by SCM. (7M)