

**III B. Tech II Semester Supplementary Examinations, November -2018****MANAGEMENT SCIENCE**

(Common to Electrical and Electronics Engineering and Chemical Engineering)

Time: 3 hours

Max. Marks: 70

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

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**PART -A**

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|---|----|---|------|
| 1 | a) | Explain the Functions of management.                | [3M] |
|   | b) | List the steps involved in Decision making process? | [4M] |
|   | c) | Explain EOQ.  | [4M] |
|   | d) | What is job evaluation?                             | [4M] |
|   | e) | Explain about probability analysis.                 | [4M] |
|   | f) | What is Mission statement?                          | [3M] |

**PART -B**

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|---|----|---|------|
| 2 | a) | Explain the concept and nature of management.   | [4M] |
|   | b) | Discuss the Maslow's Needs hierarchy theory of motivation.  | [8M] |
|   | c) | Distinguish between line organization vs. staff organization.   | [4M] |
| 3 | a) | Explain the need and importance of controlling inventory in the organization  | [3M] |
|   | b) | An inspection of 10 samples of size 400 each from 10 lots revealed the following:<br>Number of defective units: 17, 15, 14, 26, 9, 4, 19, 12, 9, 15.<br>Calculate control limits for the number of defective units. Plot the control limits and the observations and state whether the process is under control or not. | [8M] |
|   | c) | A company uses annually 12,000 units of raw material costing Rs. 1.25 per unit. Placing each order cost Rs. 15. Carrying costs are 15% per year per unit of average inventory find out EOQ.   | [5M] |
| 4 | a) | Explain the concept and functions of HRM.   | [8M] |
|   | b) | What is job evaluation? Explain the process of job evaluation.  | [8M] |
| 5 | a) | What is PERT and its importance in network analysis? Explain the requirements for applications of PERT techniques.  | [8M] |
|   | b) | Draw network and calculate project completion time and floats for each activity with an illustration.   | [8M] |
| 6 | a) | Define the term "Strategy". How a strategy is formulated?   | [8M] |
|   | b) | What do you mean by SWOT analysis? Explain its business analysis.   | [8M] |
| 7 | a) | What is MIS? Explain the major functions and classifications of MIS.  | [8M] |
|   | b) | What is TQM? Discuss the elements and benefits of TQM.  | [8M] |

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