

III B. Tech II Semester Supplementary Examinations, November/December - 2016
INDUSTRIAL ENGINEERING & MANAGEMENT
(Mechanical Engineering)

Time: 3 hours

Maximum 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**

PART -A

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|------|---|------|
| 1 a) | What is scientific management and explain its importance. | [3M] |
| b) | What is maintenance and why it is important in manufacturing. | [4M] |
| c) | What is work sampling and describe when it is used. | [4M] |
| d) | What are quality circles and explain the purpose of it. | [4M] |
| e) | What is merit rating and what are its objectives. | [3M] |
| f) | Briefly explain the need of supply chain management. | [4M] |

PART -B

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| 2 a) | Discuss about the functions of management. | [8M] |
| b) | What is productivity? What are the methods that are used to measure productivity? | [8M] |
| 3 a) | Explain different types of plant layout. | [10M] |
| b) | What are the symptoms of bad layout? | [6M] |
| 4 a) | What are the techniques of work study and explain its significance. | [8M] |
| b) | What are the tools for recording information about method study? | [8M] |
| 5 a) | What is the philosophy of TQM? | [9M] |
| b) | Comment on single and double sampling plans and their applications. | [7M] |
| 6 a) | State and explain the functions of personal management. | [9M] |
| b) | What are the main benefits and limits of job evaluation? | [7M] |
| 7 a) | Explain the different steps in value engineering process? Explain the methodology. | [10M] |
| b) | Explain the differences between PERT & CPM. | [6M] |

