

Code No: RT32036

R13

SET - 1

III B. Tech II Semester Supplementary Examinations, November - 2017
INDUSTRIAL ENGINEERING & MANAGEMENT
 (Mechanical 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

- 1 a) What is the difference between productivity and production? [3M]
- b) What are the symptoms of bad layout? [4M]
- c) State the objectives of work measurement. [3M]
- d) What is SQC and list out its benefits? [4M]
- e) What are the objectives of human resource management? [4M]
- f) What are the differences between PERT & CPM. [4M]

PART -B

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|---|----|---|-------|
| 2 | a) | Explain theory x and theory y and show as a manager how you would apply them to motivate your staff | [8M] |
| | b) | What is productivity? Enumerate the reasons for low productivity? | [8M] |
| 3 | a) | Explain briefly major factors to be considered in selecting the location of a paper mill. | [10M] |
| | b) | Discuss about breakdown maintenance. | [6M] |
| 4 | a) | What are Therblings? List various Therblings and their use in method study. | [10M] |
| | b) | Stop watch time study of an element is done on an operation, the readings were observed as follows
<div style="text-align: center;"> 0.52 0.51 0.52 0.52 0.51 0.50 0.50 0.52 </div> The average rating factor for the operator is 120%. Find out the Standard time, assuming allowances 20%. | [6M] |
| 5 | a) | What are quality circles and explain the purpose of it. Explain how it is beneficial to organization. | [8M] |
| | b) | Explain the objectives of ISO quality systems and discuss the major clauses in it. | [8M] |
| 6 | a) | What are the functions of a personnel manager? | [8M] |
| | b) | What do you understand by merit rating? List out its advantages and disadvantages. | [8M] |
| 7 | a) | What do you understand by ERP? explain its main functions, | [8M] |
| | b) | Explain about project crashing in project management. | [8M] |

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