

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 compulsory3. 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**

- 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  
0.52 0.51 0.52 0.52 0.51 0.50 0.50 0.52  
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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