

Code: CE5T6FE1, CS5T5FE2, EM5T6FE3

III B.Tech - I Semester – Regular Examinations - November 2014

INDUSTRIAL MANAGEMENT
(Common for CIVIL, CSE, ECM)

Duration: 3 hours

Marks: 5x14=70

Answer any **FIVE** questions. All questions carry equal marks

1. a) Explain about Henry Fayol's principles. 7 M
b) Describe the features of McGregor's Theory X. 7 M
2. a) What are the features of line organization. What are the advantages and disadvantages. 7 M
b) Distinguish between matrix and cellular organizations with examples. 7 M
3. a) What are the traits to be possessed by a Leader. 7 M
b) Clearly explain about the various types of leadership. 7 M
4. a) Why is the facility location planning treated as one of the critical situations in an industry? Discuss in detail. 7 M
b) With the help of suitable examples, discuss the features and characteristics of "make to stock" type of production. 7 M

5. What is the significance of the following tools of method study? 14 M

- a) Process flow chart
- b) Two-hand process chart
- c) SIMO Chart

6. a) Explain various allowances provided to operators working in an industry. 7 M

b) An operator was kept under observation for 10 days. In 250 observations, he was found to be on job for 200 times and idle for 50 times. He produced 200 jobs during the 10 days at a performance rate of 120. If the observation period is 5 hours per day and 15% allowances are given, find the normal time and standard time. 7 M

7. a) Define and explain the following terms with reference to PERT in project management:

- i) Pessimistic time 2 M
- ii) Optimistic time 2 M

b) Draw the network from the following activities and the find critical path and duration of the project. 10 M

Activity	1-2	1-3	2-4	3-4	3-5	4-9	5-6	5-7	6-8	7-8	8-10	9-10
Duration (Weeks)	5	2	2	2	7	6	5	9	2	3	6	8

8. a) Do you think sample inspection is sufficient and efficient method in mass production? Justify your answer. Explain with suitable examples. 7 M

b) The average percentage of defectives in 25 samples of size 1200 each was found to be 12%. Determine the control limits to construct a suitable control chart for this situation. Explain how this control chart can be used to control quality. 7 M