

Code: 9A03601

B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2014/2015

INDUSTRIAL MANAGEMENT

(Common to ME and MCT)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Write an essay on the contribution of Taylor in the field of management
- 2 What are the features of functional organization structure? What are its weaknesses? Discuss the situations under which it is more suitable.
- 3 Explain the importance of travel chart in effective layout of a production plant. Prepare a travel chart for a hypothetical engineering concern with 5 functional departments, i.e. foundry, forging, machining, welding and inspection.
- 4 (a) Explain the Man-machine chart with a neat sketch.
(b) Find out the standard time using the following data:
Average time for machine element = 12 min, Average time for manual elements = 8 min.
Performance rating = 120%, Allowances = 8%.
- 5 What is meant by inventory? What is the need for inventory control at different stages of production? What are the different costs involved in maintaining inventory?

6 Consider the following data of a project:

Activity	Predecessor(s)	Duration (weeks)		
		A	m	B
A	-	3	5	8
B	-	6	7	9
C	A	4	5	9
D	B	3	5	8
E	A	4	6	9
F	C, D	5	8	11
G	C, D, E	3	6	9
H	F	1	2	9

- (a) Construct the project work.
- (b) Find the expected duration and variance.
- (c) Find the critical path and expected project completion time.
- (d) What is the probability of completing the project on or before 30 weeks?
- (e) If the probability of completing the project is 0.9, find the expected project completion time.

- 7 What are the different methods of TQM? Explain any two methods in briefly.
- 8 What is job evaluation? Explain the objectives of job evaluation. How do you prepare the ground for evaluation of jobs?
