

R09

Code No: 09A60301

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech III Year II Semester Examinations, May/June, 2013

Industrial Management

(Common to ME, MCT, AME, MIE, MIM)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Explain the Fayol's principles of Management.
b) What are the social responsibilities of management? [8+7]
- 2.a) Explain the line and staff organization and discuss its suitability.
b) Explain the various types of committees. [8+7]
- 3.a) Explain various steps involved in method study.
b) The following are X and R values of 20 sub-groups of five readings: [4+11]

sub group no	sample average X	Range(R)	sub group no	sample average	Range(R)
	1	2	3	4	5
1	34.5	4	11	35.8	4
2	31.6	4	12	38.4	4
3	30.8	2	13	34	14
4	33	3	14	35	17
5	35	5	15	33.8	5
6	33.2	2	16	31.6	5
7	33	5	17	28.2	3
8	32.6	13	15	31.8	9
9	33.8	19	19	35.6	6
10	37.8	6	20	32.3	4

Determine the trail central line and control limits for X and R charts. Comment on the process.

- 4.a) Derive the formula for Economic order quantity of basic inventory model and State its assumptions.
b) Explain various types of marketing strategies based product life cycle. [7+8]
- 5.a) Explain the various performance appraisal methods.
b) What are the different techniques of selection followed by a personnel manager for employing the personnel in an organization? [8+7]

6. The following is a table showing details of a project;

Task	A	B	C	D	E	F	G	H	I
Least Time	5	18	26	16	15	6	7	7	3
Great Time	10	22	40	20	25	12	12	9	5
Most Likely Time	8	20	33	18	20	9	10	8	4

Determine the following:

- a) Draw the project network and the critical path.
- b) Expected project duration and standard deviation of critical path.
- c) The probability of completing the project with in 41.5 weeks. [12+3]

- 7.a) What is SWOT analysis? What is it significant?
- b) Why do you need strategies? Explain how is beneficial to modern industry? [8+7]

8. Write short note on

- a) Kaizen
- b) Capability Maturity Model (CMM)
- c) Business Process
- d) Value Chain Analysis. [4+4+4+3]
