R09

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

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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 41.5weeks.   [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]

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