

Code No: 117EG

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2017

MANAGEMENT SCIENCE

(Common to ECE, MMT)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

Part- A (25 Marks)

- 1.a) What is scalar chain principle? [2]
- b) What are the advantages of narrow span of control? [3]
- c) What are Therbligs? [2]
- d) What are the control charts for inspection by attributes? [3]
- e) Define HRD. [2]
- f) What is job analysis? Why is it needed? [3]
- g) What is crash time? [2]
- h) What is cost slope? Mention its significance. [3]
- i) What is the typical time horizon for long range planning? [2]
- j) What is demotion? What would be its impact on workforce? [3]

Part-B (50 Marks)

- 2.a) Describe Maslow's theory of motivation.
- b) Define authority and responsibility. What is the relationship among them? [5+5]

OR

3. What are the various group of people to whom the business organization owe responsibility? Briefly describe the nature of each of them. [10]

- 4.a) Calculate the number of observations required for an accuracy of plus minus 5% and confidence level of 95%, if the average percentage of occurrence of an activity is 0.8.
- b) Describe the following store records:
i) Goods Received Note ii) Invoice iii) Material Issue Requisition. [5+5]

OR

- 5.a) A company follows EOQ while planning for its requirement of materials. For particular item at EOQ, the inventory carrying cost is Rs5600/-. What is the total ordering cost?
- b) What are the elements of marketing mix? Explain each of them briefly. [2+8]

- 6.a) Explain some of the on-the-job training methods.
- b) What are the factors affecting compensation policy? [5+5]

OR

- 7.a) What are the steps involved while handling grievance?
- b) What are the various incentives offered by employer to its staff? [5+5]

8. A small project is composed of 7 activities whose time estimates are listed below.

activity	Estimated time duration in weeks		
	optimistic	Most likely	pessimistic
1-2	1	1	7
1-3	1	4	7
1-4	2	2	8
2-5	1	1	1
3-5	2	5	14
4-6	2	5	8
5-6	3	6	15

Draw PERT diagram and represent the project completion time.

[10]

OR

9. A project has the following time schedule:

Activity	Time in months	activity	Time in months
1-2	2	3-7	5
1-3	2	4-6	3
1-4	1	5-8	1
2-5	4	6-9	5
3-6	8	7-8	4
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Construct PERT network and compute critical path and its duration.

[10]

- 10.a) What is Bench marking and what are its limitations?
 b) What are the various elements in the corporate planning process?

[5+5]

OR

- 11.a) What is the purpose of environmental scanning?
 b) What is balance score card?

[5+5]

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