

Code: EE5T1

**III B.Tech - I Semester – Regular/Supplementary Examinations
October 2019**

**INDUSTRIAL ORGANIZATION AND ENGINEERING
ECONOMICS
(ELECTRICAL & ELECTRONICS ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1.

- a) Define Management.
- b) Explain Span of Management
- c) Define Line of Organization.
- d) What is Sole Proprietorship?
- e) Explain the Departmental Undertakings.
- f) Write about R-chart.
- g) Define Micro economics.
- h) Discuss Iso-quants.
- i) What is Law of increasing returns to scale?
- j) Explain Critical Path Method.
- k) Project Crashing.

PART – B

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

3 x 16 = 48 M

2. a) Explain Fayol's 14 principles of management. 8 M
- b) Briefly discuss the importance of management. 8 M
3. a) State and explain the features of partnership form of organization. 8 M
- b) Describe the role of entrepreneurs in economic development. 8 M
4. a) Define work study? Explain the procedure involved in method study. 8 M
- b) What do you mean by quality? Discuss significance of statistical quality control. 8 M
5. a) Describe the law of demand and its exceptions. 8 M
- b) Number of units sold is 20,000 unit, selling price per unit Rs.30/-, variable cost per unit is Rs. 15/- per unit and fixed cost is Rs.80,000/-. Calculate (i) BEP (in units) (ii) Break Even Sales (in rupees) (iii) P/V ratio (iv) How many number of units sold to earn a profit of Rs.1,20,000/-. 8 M

6. The following table gives the information about various activities of a project network. The overhead costs are Rs.1000/- per day, determine the optimum cost and duration of the project.

16 M

Activity	Normal Time	Normal Cost	Crash Time	Crash Cost
1-2	8	7000	5	9400
1-3	6	2000	4	2800
2-3	8	5000	7	6000
2-4	8	4000	7	4600
3-4	7	3000	5	4800