

Code: EE5T1

**III B.Tech - I Semester – Regular/Supplementary Examinations
March 2021**

**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) Mention any four demerits of scientific management.
 - b) Write short notes on “Esprit de corps” with reference to Fayol’s concept.
 - c) List any four functions of an entrepreneur.
 - d) What are the merits of sole proprietorship?
 - e) Which production method would you recommend for:
 - i) a paint manufacturing company and
 - ii) a thermal power plant
 - f) Name any four methods/techniques used to record existing method in method study.
 - g) What is JIT?
 - h) Distinguish between micro economics and macro economics.
 - i) What is law of demand?
 - j) Describe three time estimates used in PERT.
 - k) What you mean by project crashing?

PART – B

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

3 x 16 = 48 M

2. a) Distinguish between the features of a line organization and a staff or functional organization? 8 M
- b) Explain any two functions of management in an organization elaborately. 8 M
3. a) Discuss the effect of policies such as “Make in India” and “Incubation centers for startups” on entrepreneurs in India? 8 M
- b) Write the advantages and disadvantages of partnership enterprises. 8 M
4. a) Write a detailed note on the purchasing process. 8 M
- b) Explain the steps involved in acceptance sampling. 8 M
5. a) Star Electrical and Communication (P) Ltd decided to produce LED bulbs in the newly established plant. The initial fixed cost valued at Rs.10,00,000 for establishment. The Variable cost would be Rs.20 per bulb, and its selling price is Rs.50 each. 10 M

i) How many new bulbs must be sold in order to break-even?

ii) How many bulbs must be sold to realize a profit of Rs.30,000?

b) Describe any one qualitative demand forecasting method with the help of an example. 6 M

6. Draw the network diagram and find the critical path from the following information of a boiler erection project.

16 M

Activity	A	B	C	D	E	F	G	H	I	J
Time (Weeks)	15	15	3	5	8	12	1	14	3	14
Preceded by	---	---	A	A	B,C	B,C	E	E	D,G	F,H,I