PVP 14

Code: CE6T6FE-A, IT6T5FE-C

III B.Tech-II Semester–Regular/Supplementary Examinations–March 2018

INDUSTRIAL ENGINEEERING & ENTREPRENEURSHIP
(Common for CIVIL & IT)

Duration: 3 hours Max. Marks: 70

PART – A

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

11x 2 = 22 M

1. a) Define Industrial Engineering.
   b) Differentiate between Departmentation and decentralization.
   c) Explain about staff organization?
   d) Explain about Statistical quality control.
   e) What are the benefits of implementing quality circles?
   f) Differentiate between variable charts and attribute charts.
   g) When will you create a dummy activity in a network diagram?
   h) Explain about p charts and c charts.
   i) Define optimistic, pessimistic and most likely times.
   j) State the functions of an entrepreneur.
   k) Explain the different terms used in a network diagram.

PART – B

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

3 x 16 = 48 M

2. a) Explain the role of Industrial Engineering in increasing the productivity. 8 M

   b) Explain the principles of scientific management. 8 M

3. a) Explain different types of leadership based on the authority . 8 M

   b) Explain about line organization and functional organization. 8 M

4. a) What is Acceptance sampling? Discuss about various sampling plans. 8 M

   b) Construct $\bar{x}$ and R chart from the data given below. The sample size is 5. 8 M

Sample number	$\bar{x}$	Range
1	6	5
2	6.4	5
3	6.6	4
4	6.6	8
5	4.4	5
6	5.8	8
7	5.4	7
8	4.8	8
9	6.0	9
10	7.6	4

5. a) Define critical path. State the steps involved in determining critical path. 8 M

b) Differentiate between PERT and CPM. 8 M

6. a) Explain about the procedure of registering a small scale industry. 8 M

b) Explain the different factors contributing to the failure of entrepreneurial ventures. 8 M