

Total No. of Questions – [06]

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MARCH 2020 INSEM (T1)
S. Y. B.TECH. (MECHANICAL ENGINEERING) (SEMESTER – IV)
COURSE NAME: PROJECT MANAGEMENT AND ECONOMICS
COURSE CODE: ES22185ME
(PATTERN 2018)

Time: [1 Hour]

[Max. Marks: 20]

(*) Instructions to candidates:

1. Attempt Q.1 **OR** Q.2, Q.3 **OR** Q.4, Q.5 **OR** Q.6
2. Figures to the right indicate full marks.
3. Use of scientific calculator is allowed.
4. Assume suitable data wherever required.

- Q. 1) A project consists of following 8 activities. Draw the network and compute critical path, find total float for each activity in a table. [8]

Activity	P	Q	R	S	T	U	V	W
Immediate Predecessor	-	-	-	R	P,Q	T,S	S	U,V
Duration	12	20	28	12	28	12	8	8

OR

- Q. 2) A small project is composed of the following activities whose time estimates are given below: (Estimated activity duration in weeks) [8]

Activity	1-2	1-3	1-4	2-5	3-5	4-6	5-6
Optimistic	1	1	2	1	2	2	3
Most likely	1	4	2	1	5	5	6
Pessimistic	7	7	8	1	14	8	15

Draw network, find critical path, variance of each activity.

- Q. 3) Write short notes on i) Project scheduling
ii) Enterprise resource planning (ERP)? [8]

OR

- Q. 4) Describe in detail project risk management including risk identification and project RBS? [8]

- Q. 5) Write leadership styles with their characteristics, advantages and limitations? [4]

OR

- Q. 6) Define Conflicts Management? What are steps involved in conflicts management? [4]