

Code: CE8T1

**IV B.Tech - II Semester – Regular / Supplementary Examinations
March 2019**

**CONSTRUCTION TECHNOLOGY AND PROJECT
MANAGEMENT
(CIVIL 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) Write short notes on construction schedule.
- b) What are objectives of planning?
- c) What are the activities involved in planning?
- d) Define the term activity.
- e) What is the significance of critical path?
- f) What are the steps involved in resource smoothing?
- g) Write down the objectives of material management.
- h) List out the various types of earthwork equipment's.
- i) Write down the factors affecting the selection of equipment's.
- j) What is the quality assurance?
- k) Explain about ISO 9000 quality systems.

PART – B

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

3 x 16 = 48 M

2. a) Explain in detail project management constructions. 8 M

b) What are the objectives and functions of construction management? 8 M

3. Draw the PERT network for the following and find the expected mean time, variance and SD of the project. 16 M

Activity	Three – Time Estimates (days)
0-1	2-3-10
0-2	4-5-6
1-2	0-0-0
1-3	6-7-8
1-4	1-5-9
2-5	3-5-19
3-4	0-0-0

4. Explain about crashing for optimum cost and crashing for optimum resources. 16 M

5. Elaborately discuss the various materials handling equipment's and discuss their specific purpose in detail. 16 M
6. a) Write in detail about quality control and safety engineering. 8 M
- b) Explain about ISO 9000 quality systems and mention any 8 clauses in detail. 8 M