

Code: CE8T1

IV B.Tech - II Semester - Regular Examinations - March 2018

**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) What is meant by heavy construction project?
- b) Write any four benefits of project management.
- c) Write down the elements of project planning.
- d) What are the types of network technique as per project management?
- e) Define slack.
- f) What is meant by critical activity?
- g) What do you mean by ABC classification of material?
- h) Define time study.
- i) What do you mean by form work?
- j) Write down at least two ISO-9000 organization.
- k) Write down the objective of safety management.

PART – B

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

3 x 16 = 48 M

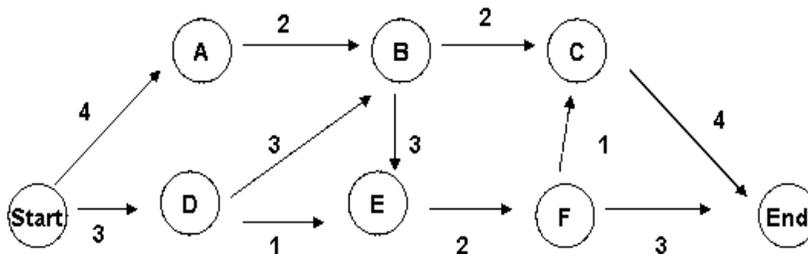
2.a) Explain briefly various steps involved in planning. 8 M

b) Briefly explain the advantages and disadvantages of Gantt charts. 8 M

3.a) Briefly explain the steps involved in Critical Path Method Project Planning. 8 M

b) (i) Find out the critical path. 8 M

(ii) Find out the total float, free float and independent float.



4.a) Briefly explain the various steps involved in resource levelling. 8 M

b) Briefly explain about inventory management techniques. 8 M

- 5.a) List the various classification of construction equipment and explain one of them. 8 M
- b) Briefly explain about the types of formwork. 8 M
- 6.a) Distinguish between TQM and TQC. 8 M
- b) Explain the approaches to improve safety in construction. 8 M