

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/Backlog), Nov-Dec 2016

B. Tech in Civil Engineering, Semester VII

Roll No.....

CE 701: Construction Project Management

Time: 3 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.
3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

- Q.1 A Objective type multiple choice questions (10 questions @ 1 mark) 10**
- i. Find the odd man out; a) Safety Belts, b) Goggles, c) Warning Sign d) Hand Globes.
 - ii. Slack time refers to; an activity b) an event c) both event and activity d) none of the above
 - iii. Which of the following does not represent an activity; a) site located. b) foundation is being dug c) the office area is being cleaned. d) the invitations are being sent
 - iv. Critical path; a) is always longest b) is always shortest c) may be longest d) may be shortest
 - v. Success criteria should be developed as part of the: a) detailed planning b) work breakdown structure c) risk management d) business case
 - vi. The time by which a particular activity can be delayed without affecting the preceding and succeeding activities is known as; a) total float b) free float c) interfering float d) independent float.
 - vii. Free float is mainly used to; a) Identify the activities which can be delayed without affecting the total float of preceding activity b) Identify the activities, which can be delayed without affecting the total float of succeeding activity, c) Establish priorities d) Identify the activities which can be delayed without affecting the total float of either the preceding or succeeding activities
 - viii. Select the incorrect statement; a) A critical path always begins at the very first event. b) A critical path always terminates at the last event. c) Critical activities control the project duration. d) Critical activity is the one for which free float is zero.
 - ix. In resources levelling; a) Total duration of project is reduced, b) Total duration of project is increased, c) Uniform demand of resources is achieved, d) Cost of project is controlled
 - x. A dummy activity is represented by; a) Continuous line, b) Fade line, c) Dotted line d) Dash line.

- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- Write a note on earliest expected time?
 - Write a detailed note on scruniting of tender?
 - Write a note on WBS?
 - Write a note on latest allowable occurrence time?

- Q.3 Write any three;
- Explain the safety measures to be followed at construction site? 10
 - Write note on breach of contract? 10
 - Write a note on activity time in project management? 10
 - Define float along with its other terms? 10

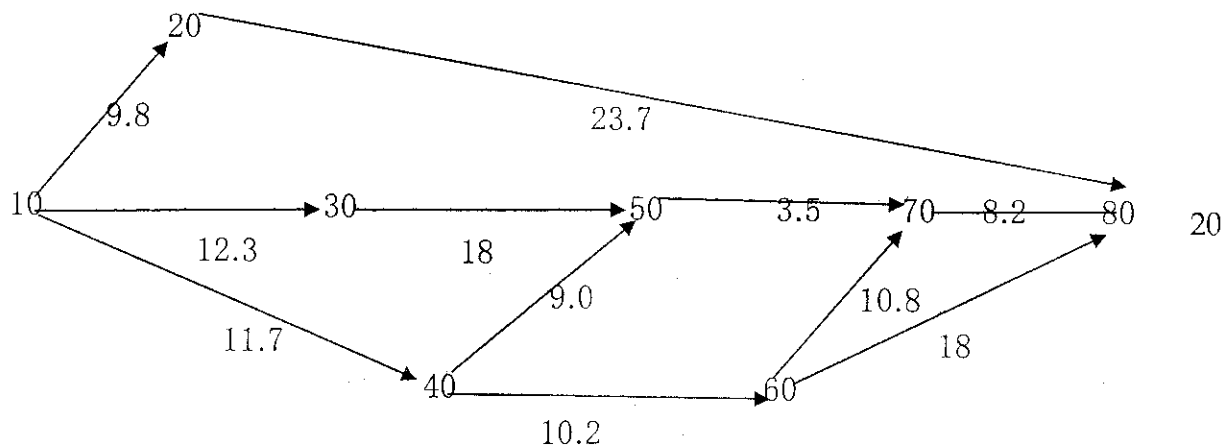
- Q.4A Write a note on optimistic time, pessimistic time & most likely time along with its formulae? 10

- Q.4 B Enlist and explain the various causes of failure of construction project? 10

OR

- Q.4 B State and explain the functions of project management? 10

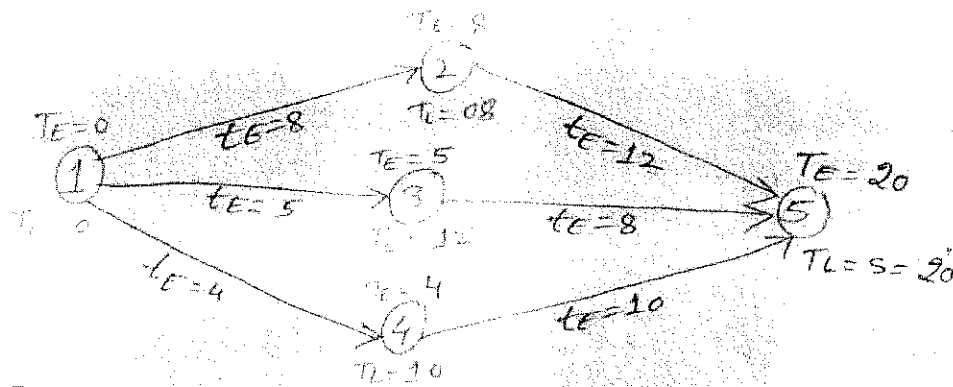
- Q.5 A Define slack & determine slack for the network given below, also determine critical path for the same & redraw the network.



OR

- Q.5 A a) Explain various Stages in Project Planning? 20
b) Compare PERT with CPM?

- Q.6 A Determine the slack value for the network as shown below; redraw the figure mentioning all the values. Also cross verifying the values of "TE" & "TL"



OR

Q.6 A Determine the expected time for the fig. given below; also calculated the determine critical path.

