



**B.E DEGREE EXAMINATIONS: NOV 2015**

(Regulation 2009)

Seventh Semester

**CIVIL ENGINEERING**

CEE124: Construction Project Management

**Time: Three Hours**

**Maximum Marks: 100**

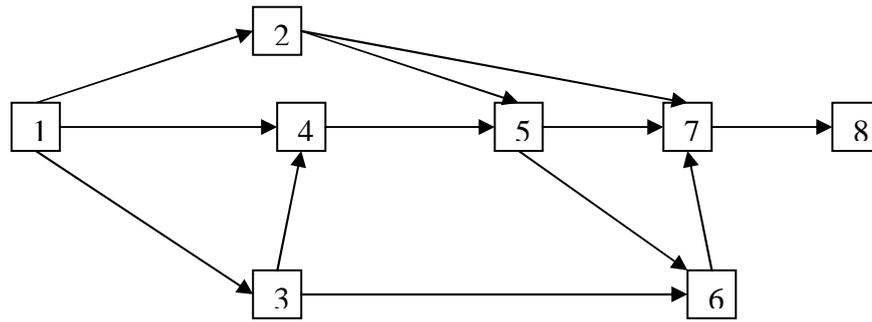
**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. The technique for establishing and maintaining priorities among the various jobs of a project, is known
  - a) Event flow scheduling technique
  - b) Critical ratio scheduling
  - c) Slotting technique for scheduling
  - d) Short interval scheduling.
2. The performance of a specific task in CPM, is known
  - a) Dummy
  - b) Event
  - c) Activity
  - d) Contract
3. The time with which direct cost does not reduce with the increase in time is known as
  - a) Crash time
  - b) normal time
  - c) optimistic time
  - d) standard time
4. The direct cost of a project with respect to normal time is
  - a) minimum
  - b) maximum
  - c) zero
  - d) infinite
5. The time by which activity completion time can be delayed without affecting the start of succeeding activities, is known as
  - a) Duration
  - b) Total float
  - c) Free float
  - d) Interfering float
6. Which of the following earth moving machines has the shortest cycle time?
  - a) Drag line
  - b) Hoe
  - c) Clam shell
  - d) Dipper shovel
7. Works costing less than Rs. 20,000 are treated as
  - a) projects
  - b) major projects



b) Find the floats of all activities and critical path of network given below



Activity	Duration (Days)	Activity	Duration (Days)
1-2	6	3-6	4
1-4	8	5-6	5
1-3	7	5-7	6
2-5	7	7-8	9
4-5	9	2-7	8
3-4	4	6-7	6

22. a) A small project consists of 7 activities. Time estimates in weeks of different activities are given below

Activity/ Time	1-2	1-3	1-4	2-5	3-5	4-6
to	1	1	2	1	2	2
tm	1	4	2	1	5	5
tp	7	7	8	1	14	8

Draw the network.

Determine critical path

What is the probability of not completing project within 18 weeks?

**(OR)**

b) Briefly explain the methods of estimation of activity duration in construction project and explain their limitations.

23. a) Explain optimistic, pessimistic and most likely time estimate. (7)

Explain term Earliest expected time. Formulate an expression for the same (7)

**(OR)**

b) Discuss about cost analysis in construction project. Bring out relationship between estimating and cost control.

24. a) Discuss the performance factors of earth moving equipments

**(OR)**

b) Explain in detail earth work calculation by mass hand diagram.

25. a) What are the requirements of a tender document?

**(OR)**

b) Explain types of contract. What are possible contractual problems? Discuss.

\*\*\*\*\*