

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE) (2011 Onwards) (Sem.-4)

CONSTRUCTION MACHINERY AND WORKS MANAGEMENT

Subject Code : BTCE-402

Paper ID : [A1172]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**1. Write briefly :**

- a) Define the term total float, free float and share float.
- b) What are characteristics of Normal Distribution?
- c) What is a milestone chart?
- d) Differentiate between an activity & an Event.
- e) Define the term "Line of Balance".
- f) What ITS and FS stands for?
- g) How do you select the size of a power shovel?
- h) Explain the Variance and Standard Deviation.
- i) Draw the layout of a Bituminous Mix Plant.
- j) Explain the functions of Crane.

SECTION-B

2. Explain batching, mixing and placing of concrete.
3. What is a network diagram? What is the difference between PERT and CPM?
4. Describe the basic rules for construction of network diagram.
5. Derive graphically a relationship between optimum duration time and optimum cost.
6. Explain the working of a Dragline.

SECTION-C

7. A project has the following schedule. Construct the PERT network and compute the earliest start time for each activity.

Activity	Time (weeks)	Predecessors
A	3	None
B	2	A
C	4	A
D	5	B
E	3	C
F	6	D

8. Write the functions & operating principles of :
 - a) Hoe
 - b) Bull Dozer
9. Describe the basic concepts on which the accounting systems are based.