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Total No. of Questions : 09

Total No. of Pages : 02

B.Tech. (CE-2011 Batch) (Sem.–4th)

CONSTRUCTION MACHINERY & 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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

a) What is a bar chart and its drawbacks?

b) Define the term total float, free float and share float.

c) What are characteristics of Normal Distribution?

d) What is a milestone chart?

e) Differentiate between an activity & an Event.

f) Define the term "Line of Balance".

g) What does ITS and FS stand for?

h) How do you select the size of a power shovel?

i) Explain the Variance and Standard Deviation.

j) Explain compaction of concrete.

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 :

i) Hoe

ii) Bull Dozer.

9. Describe the basic concepts on which the accounting systems are based.