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B.Tech (Civil) (Sem.–5) CONSTRUCTION MACHINERY & WORKS MANAGEMENT Subject Code : CE-301 Paper ID : [A0612]

Time: 3 Hrs.

Max. Marks : 60

# INSTRUCTIONS 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**

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#### Q1 Answer briefly :

- a) What is critical path?
- b) Distinguish between CPM and PERT,
- c) What do you understand by total float?
- d) Draw typical cost duration curve.
- e) What is time estimate?
- f) Explain Flexible Budget.
- g) List two disadvantages of small trucks.
- h) What are the essential components of belt conveyor system?
- i) What is meant by resource smoothing?
- j) Define Dummy.



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## **SECTION-B**

- Q2 Define construction management and state objectives of construction management.
- Q3 Explain the term depreciation and discuss any one method to determine depreciation.
- 04 Explain in detail various factors affecting the selection of construction equipments.
- Q5 What are Hoisting equipments? Discuss any two of commonly used hoisting equipments.
- 06 What are the uses of power shovels? Describe with neat sketch basic parts and operation of power shovel.

## **SECTION-C**

- Draw the flow diagram and explain the working of hot mix bitumen plant. **O**7
- 08 Write short notes on following :
  - a) Conveyor belt
  - b) Idlers
  - c) Wagons
- anker.com For the construction of a health centre building the following activities are to be performed : Q9

Activities	Duration (weeks)
Р	1
Q	3
R	1
S	3
Т	5
U	3
V	4
W	3

Activities P and Q can be performed in parallel; activities R and S cannot start until P is complete : T cannot start until half the work of the activity R is complete ; activity U can start only after activity S is complete; activity N succeeds activity R and activity W which is the last activity succeeds T.