

Total number of printed pages-3

53 (CE 812) CNMN

2019

CONSTRUCTION MANAGEMENT

Paper : CE 812

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

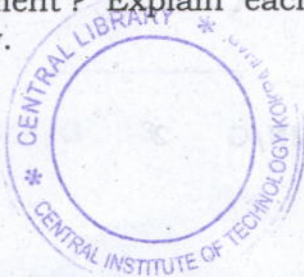
Answer **any five** questions out of **six**.

1. (a) Define Project and its management. What are the key features of a successful Project Management?

4+6=10

- (b) What is a Tender Document? What are the different components of a tender document? Explain each component briefly.

2+3+5=10



Contd.

2. (a) What is single stage and two stage bidding in a tendering process? Explain briefly different parts of bid evaluation process. 10

(b) Define Arbitration in a project management. Explain Indian Arbitration Act 1940 and its essential provisions. 10

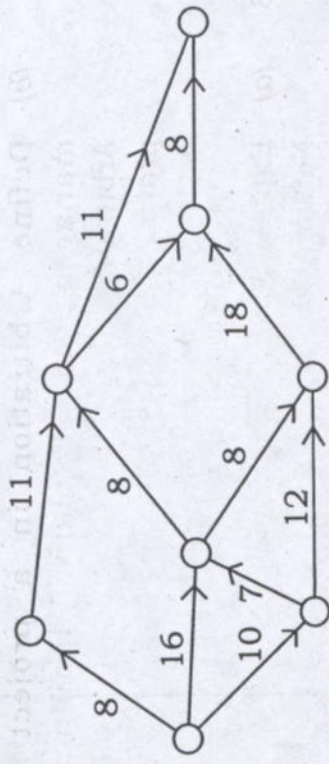
3. (a) Explain the different components of a Network. Briefly explain the different steps involved in the construction of a Network. 10

(b) Explain PERT and CPM technique in Project Management. 5+5=10

4. (a) What is bidding strategy? Explain Friedman's and Gate's model for making bidding strategy. 2+4+4=10

(b) Explain the process of Guniting and Shotcreting in construction work. 5+5=10

5. For the following Network shown below, calculate the slacks for the events and determine the critical path. Put the calculations in a Tabular form. The activity time in days are given along the arrows. 20



6. For the following network shown below, the three time estimates for activities are given along the arrows. Determine the critical path. What is the probability that the project will be completed in 20 days? 20

