

Total number of printed pages—4

43 (8) CTMN

2016

CONSTRUCTION MANAGEMENT

Paper : ENG-8·6

Full Marks : 100

Time : Three hours

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

Answer the following questions : **(any five)**

20×5=100

1. (i) What do you understand by the terms — owners, architect, contractor? What is the relationship between them?

6+4=10

- (ii) How can you classify construction industry? Give examples of each type. State the main objectives of construction management.

5+5=10

Contd.

2. (i) Describe the various resources required for construction. 6
- (ii) Explain the purpose and important activities of different stages in construction. 14
3. (i) Define Planning. What are the objectives of construction planning? 10
- (ii) What do you understand by pre-tender and contract planning? Discuss in detail. 10
4. (i) Detail CPM and PERT networking methods. Discuss common rules for networking diagram. Discuss the advantages of BAR chart and CPM method. 10
- (ii) Draw the network diagram for the following activities and number the events :
- I. Activity 'B' follows 'A'
- II. Activities 'C' and 'D' both follow 'B'

- III. Activity 'H' follows 'D'
- IV. Activities 'E' and 'J' both follow 'C'
- V. Activity 'F' follows 'E'
- VI. Activity 'K' follows 'J' and 'H'
- VII. Activity 'G' follows 'F'
- VIII. Activity 'L' follows 'K'
- IX. Activity 'M' follows both 'L' and 'G'

5. (i) Define 'Organisation' and name *three* basic types of organisation. Outline why is it necessary. 10

(ii) Enumerate principles of organisation. Give an example of organisational structure. 10

6. What is tender? What is contract? What are the different types of contract? Explain. 20

7. Write short notes on the following : 4×5=20

(i) Importance of time-cost analysis

- (ii) Line and staff organisation
 - (iii) Quality Control
 - (iv) Activity and event in networking
 - (v) Various resources in construction industry.
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