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43(8)8-6

2019

**CONSTRUCTION MANAGEMENT**

Paper : ENG-8-6

Full Marks : 100

Time : Three hours

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

1. Write short notes on : **(any five)** 5×5=25
  - (i) Quality Control
  - (ii) Accident Report
  - (iii) Activity and event in networking
  - (iv) Work breakdown structure
  - (v) Critical Path
  - (vi) Line organization
  - (vii) Cost optimization.

Contd.

2. Answer the following questions : **(any four)**

10×4=40

(i) What do you understand by pre-tender? Discuss in details.

(ii) Explain purposes and activities of different stages in construction.

(iii) What is scheduling and how does scheduling help in resource planning during Construction Management?

(iv) Explain the importance of Safety programmes in construction sector to reduce accidents.

(v) Define planning. What are the objectives of construction planning?

3. What is Construction Management? Describe the objectives and functions of Construction Management.

5+10=15

4. What is Bar chart? What are the shortcomings of Bar chart? Prepare a Bar chart of the following activities of a building construction with respect to the given time duration :

5+5+10=20

1. Survey, soil testing, drawing — 30 days
2. Excavation — 11 days
3. Place mud made lean concrete — 1 day

4. Fabricate shuttering — 4 days
5. Cut and bend reinforcement — 3 days
6. Fix reinforcement — 3 days
7. Fix shuttering — 1 day
8. Pour concrete — 1 day

**Or**

5. Define CPM and PERT networking methods. Discuss common rules for networking diagram. Draw network diagram for the following activities and number the events:

5+5+10=20

1. Activity 'B' follows 'A'
2. Activities 'C' and 'D' both follow 'B'
3. Activity 'H' follows 'D'
4. Activities 'E' and 'J' both follow 'C'
5. Activity 'F' follows 'E'
6. Activity 'K' follows 'J' and 'H'
7. Activity 'G' follows 'F'
8. Activity 'L' follows 'K'
9. Activity 'M' follows both 'L' and 'G'