

2017

CONSTRUCTION MANAGEMENT

Paper : ENG 8-6

Full Marks : 100

Time : Three hours

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

PART-I

Answer the following questions : $2 \times 10 = 20$

- (i) What do you understand by Construction Management ?
- (ii) Define Scheduling.
- (iii) What is 'Latest Finish Time' ?
- (iv) What is 'Earliest start time' ?
- (v) Define Free Float.

Contd.

- (vi) Differentiate between 'Construction stage' and 'Commissioning stage'.
- (vii) What is 'Arbitration' ?
- (viii) Differentiate between Briefing stage and Tendering stage.
- (ix) What is a Tender document ?
- (x) What is the necessity of inspection and quality control in construction ?

PART-II

Answer **any four** of the following questions :

4×5=20

1. Describe various resources required for construction.
2. What is lump sum contract ? Discuss the merits and demerits of lump sum contract.
3. Define 'Organisation' and name *three* basic types of organisations.
4. State the main objectives of Construction Planning.
5. State the purposes of Scheduling.

PART-III

Write short notes on : **(any four)** 4×5=20

- (a) Line Organisation
- (b) Job Layout
- (c) Ownership cost and Operating cost
- (d) Critical Path Method (CPM)
- (e) Quality Control
- (f) Work break-down structure.

PART-IV

Answer the following : **(any four)** 10×4=40

1. What is Contract ? Explain in brief different types of contracts. 2+8=10
2. What is Network Technique ? Define Activity, Event with the help of examples. Mention the differences in PERT and CPM network techniques. 2+4+4=10
3. What is Construction Scheduling ? Describe the purpose of construction schedule. Discuss in brief the limitation of Bar chart in construction scheduling. 2+3+5=10

4. Explain the importance of leadership, human relations and communication in managing a construction project. 10
 5. Explain the main principles for developing an organisation for effective and efficient working. 10
 6. Explain the various causes of accidents on a construction site. Explain the importance of safety programmes in construction sector. 10
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