

Total No. of Pages:

2

Register Number:

7196

Name of the Candidate:

DIPLOMA EXAMINATION, 2010

(CONSTRUCTION MANAGEMENT)

(PAPER-II)

520. CONSTRUCTION PLANNING AND MANAGEMENT

Dec]

[Time : 3 Hours

Maximum : 100 Marks

Answer ALL questions

(5×20=100)

UNIT-I

1. a) Explain the objectives and functions of construction management. (10)
- b) What are charts? Enumerate the various types of chart with graphical representation. (10)
- (OR)
2. a) (i) Describe PERT and CPM Networks. (5)
- (ii) Write about components of Networks (5)
- b) Write about the various steps involved in construction planning. (10)

UNIT-II

3. Write short notes on:
- a) Slack (5)
- b) Forward pans (5)
- c) Backward pans (5)
- d) Critical path (5)
- (OR)
4. Write about the estimation of time and differentiate single and multiple time estimates. (20)

UNIT-III

5. a) What are the different types of floats involved in CPM? (10)
- b) Write notes on
- (i) Latest event time (5)
- (ii) Earliest event time (5)
- (OR)
6. Draw a PERT network for the following and find expected mean time, variance and SD of the project. (20)

Activity	Three-time estimates (days)
0-1	2-3-10
0-2	4-5-6
1-2	0-0-0
1-3	6-7-8
1-4	1-5-9
2-5	3-5-19
3-4	0-0-0

UNIT-IV

7. a) Write in detail about the project cost analysis. (10)
b) What do you mean by cost and write about the different types of cost in detail. (10)
(OR)
8. a) Write about contracting of network. (10)
b) Describe Resource allocation, smoothing and leveling in detail. (10)

UNIT-V

9. a) What is an organization? Write about the different types of organizations. (10)
b) Write about the safety measures taken in construction. (10)
(OR)
10. a) Explain "Inspection and Quality control". (10)
b) Write about the Job layout with example. (10)
