

Seat
No.

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मजल - 060

Construction Management (Old) (1090)

P. Pages : 3

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any one** question from each unit.
5. Answer to all the units should be written in the same answer book.
6. Assume additional suitable data if necessary.
7. Figures to the right indicate full marks.
8. Draw neat sketches wherever necessary.

UNIT - I

1. a) Explain Line and staff organisation. 5
b) Explain about 'Indian Trade Union Act'. 5
c) Explain Small Scale industries in construction. 5
d) Explain objectives of Management. 5

OR

2. p) Explain about 'factory Act'. 5
q) Explain in detail about 'Construction Team'. 5
r) Explain 'Value Engineering'. 5
s) Explain about 'Entrepreneurship'. 5

UNIT - II

3. a) Write basic difference between C.P.M. & pERT. 5
b) What are the advantages of network techniques. 5
c) Explain the following. 10
 - i) Critical path
 - ii) Activity
 - iii) Event
 - iv) Total Float
 - v) Independence Float

OR

4. p) From the following data of a small civil engineering work, Calculate project duration. Draw network and show critical path on it. Calculate EST, LST, EFT, LFT & total float and record in a tabular form. 15

Activity	Duration	Activity	Duration
1-2 A	5	4-8 G	8
1-3 B	4	5-6 H	6
2-4 C	3	6-9 I	5
2-5 D	2	7-9 J	2
3-4 E	7	8-9 K	4
4-7 F	4	9-10 L	4

- q) Explain S-curve. 5

UNIT - III

5. a) Explain in detail about line of balance. 5
- b) Explain updating of network during monitoring. 5
- c) What is crash cost & crash time ? Explain how cost slope is found. 5
- d) Explain about resource levelling. 5

OR

6. a) Distinguish between direct cost and Indirect cost. 5
- b) The following is a table showing details of project If indirect cost is Rs. 150/- per day of project duration. 15

Activity	Duration		Cost	
	Normal	Crash	Normal	Crash
A 1-2	5	3	200	250
B 2-3	7	5	200	300
C 2-4	10	8	500	1000
D 3-5	8	8	1000	1000
E 4-4	8	5	400	700

Find the all possible schedule and optimum duration and schedule optimum case completely.

UNIT - IV

7. a) Explain the stages of quality control. 5
- b) What is buffer stocks & Explain its importance. 5
- c) What are the functions of material management. 5
- d) State the advantages of A-B-C analysis. 5

OR

8. p) Find Economic order quantity from the following data
Average annual demand = 30,000 units.
Inventory carrying cost = 12% of the unit value per year
Cost of placing an order = Rs. 70/-
Cost per unit = Rs. 2/- 10
- q) What is Inventory ? Why it is necessary. 5
- r) State the meaning of sampling technique. 5

UNIT - V

9. a) Explain the importance of profit and loss account. 5
- b) Explain the 'Law of demand'. 5
- c) Explain about 'Banking System'. 5
- d) Explain importance of Economics. 5

OR

10. p) Explain elasticity of demand and factors governing elasticity of demand. 10
- q) Explain the factors of production. 5
- r) Explain Ledger Book, Cash Book, Purchase Book. 5
