8E8093

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B. Tech. VIII Sem. (Main / Back) Exam., April – May 2018
Civil Engineering
8CE3A Project Planning & Construction Management

Time: 3 Hours

Maximum Marks: 80
Min. Passing Marks: 26

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

1. NIL _____   2. NIL _____

UNIT-I

Q.1 (a) Explain various stage and steps involved in project planning. [8]

(b) Discuss main causes of project failure. [8]

OR

Q.1 (a) Explain about Risk cost management. [8]

(b) Discuss function of project management. [8]

UNIT-II

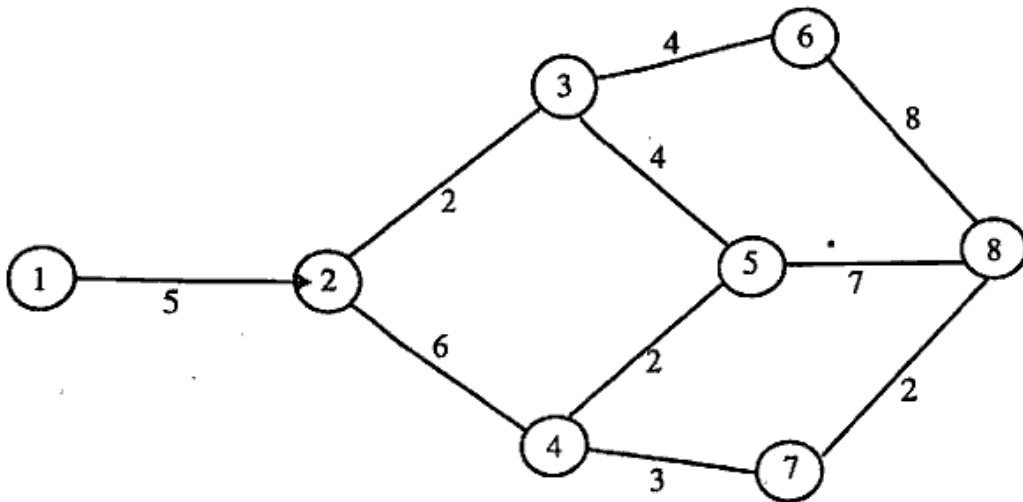Q.2 (a) What is Project Scheduling? Explain importance of project scheduling. [8]

(b) Explain work break down process. [8]

Q.2 For the network shown in Fig. calculate the earliest start time, earliest finish time latest start time, latest finish time and total floats in Respect of all the activities of the network. [16]

UNIT-III

Q.3 (a) Explain Direct and Indirect Project cost. [8]

(b) Discuss Step in Resources allocation. [8]

OR

Q.3 A small project consisting of 7 activities A, B, C, D, E, F and G has its duration and cost data for normal and crash is given below. Draw the network crash to achieve optimum duration and optimum cost if the indirect cost is estimated to Rs. 180 per day of the project duration. [16]

Activity	Normal time (Days)	Cost (Rs.)	Crash time (Days)	Cost (Rs.)
A (1-2)	3	350	2	400
B (2-3)	6	1440	4	1620
C (2-4)	9	2160	8	2220
D (2-5)	7	1300	5	1600
E (3-5)	8	500	7	600
F (4-5)	5	1600	3	1770
G (5-6)	8	450	7	750

UNIT-IV

Q.4 (a) What is Arbitration? Explain advantage of arbitration. [8]

(b) Explain in brief about contract document. [8]

OR

Q.4 (a) Discuss lump sum and scheduled contract. [8]

(b) Explain important condition of contract. [8]

UNIT-V

Q.5 (a) Explain safety measure for Hot Bituminous works. [8]

(b) Discuss causes and prevention of accidents at construction site. [8]

OR

Q.5 (a) Explain safety measures for demolition. [8]

(b) What are the benefits of computerized information system? [8]