

Roll No. ....

## CE-802

B. E. (Eighth Semester) EXAMINATION, June, 2012

(Civil Engg. Branch)

CONSTRUCTION PLANNING AND MANAGEMENT

(CE-802)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt all questions. All questions carry equal marks.  
Assume suitable data if necessary.

1. Explain Fulkerson's rule for numbering the events of a network diagram. Using these rules, number the events of the network shown in Fig. 1. 20

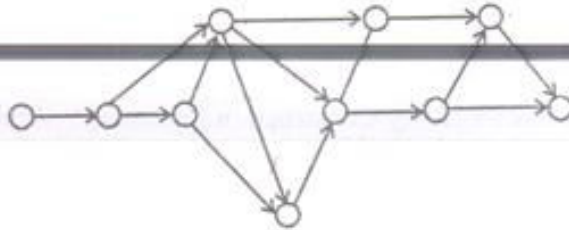


Fig. 1

Or

The expected time of completion (in days) for each activity of a network is shown in Fig. 2 ahead. Determine the

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critical path. It is given that the scheduled completion time is 21 days.

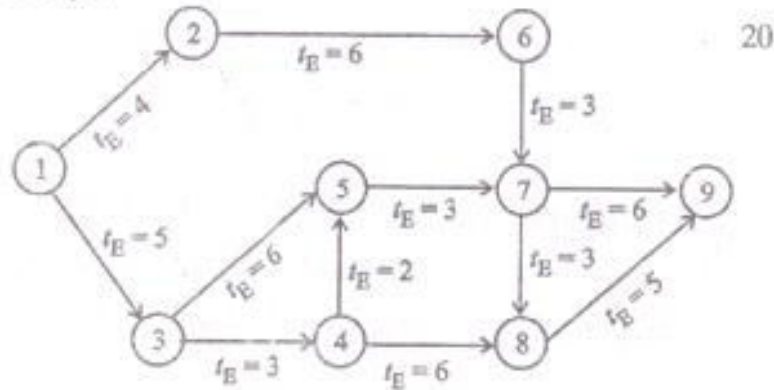


Fig. 2

2. (a) What are the various factors affecting the selection of construction equipments? 10
- (b) Write down the various factors affecting output of a power shovel. How output of a power shovel can be improved? 10

Or

Write down the operation and application of the following construction equipments. Also draw neat sketches: 10, 10

- (i) Excavating equipment (any one).
- (ii) Hoisting equipment (any one).

3. What is meant by Construction Contracts? Write a note on different types of contracts. 20

Or

Write notes on the following:

4, 4, 6, 6

- (i) EMD
- (ii) SD
- (iii) Tender documents

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4. Explain the accounting procedure followed by Public Works Department (P. W. D.) 20

Or

Write notes on the following:

10, 10

- (i) Forms used in construction work
- (ii) Measurement book

5. Write down the types of organization and also draw the charts of these. 20

Or

Write notes on the following:

10, 10

- (i) Workmen Compensation Act, 1923 and Minimum Wages Act, 1948
- (ii) Organizational approaches to improve safety at construction site