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B. E. (Sixth Semester) Examination, Nov.-Dec. 2016

(New Scheme)

(Civil Engg. Branch)

CONSTRUCTION PLANNING*Time Allowed : Three hours**Maximum Marks : 80**Minimum Pass Marks : 28*

Note : All questions are compulsory. Part (a) of each question is compulsory. Attempt any two parts from b, c and d of each question. Solve each questions/unit for 16 marks.

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Unit - I

1. (a) Define feasibility of construction project. 2
- (b) Discuss stages of planning in detail. 7

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- (c) Describe line of balance technique. 7
- (d) Explain project feasibility report in detail for a construction project. 7

Unit - II

2. (a) Define critical path. 2
- (b) Discuss about the time estimates of PERT. 7
- (c) For a particular activity of a project time estimates received from two engineers X and Y are as follows : 7

	Optimistic time	Most likely time	Pessimatics time
Engineer X	4	6	8
Engineer Y	3	5	8

State who is more certain about project completion?

- (d) The time estimates of three activities A, B, C are as follows :

	Optimistic time	Most likely time	Pessimistic time
A	10	12	14
B	6	8	12
C	5	10	12

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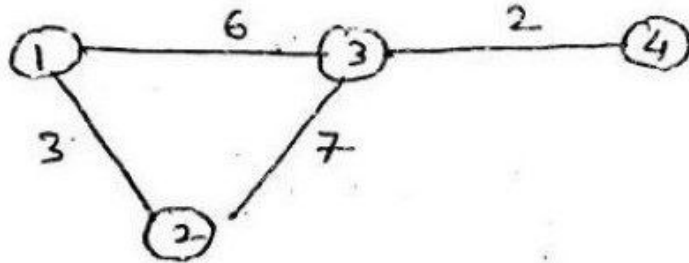
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Determine expected time and variance for each activity. Which activity has more reliable time estimates?

7

Unit - III

- 3. (a) Define C.P.M. 2
- (b) Write time and cost estimates of CPM cost model. 7
- (c) Distinguish between CPM and PERT. 7
- (d) Determine the project completion time and critical path for the network shown below : 7



Unit - IV

- 4. (a) Define project cost. 2
- (b) Explain economic analysis of a project in detail. 7
- (c) Write steps of updating process of any project. 7

- (d) Discuss about objectives of control of any project. 7

Unit - V

- 5. (a) Enumerate causes of accidents. 2
- (b) Describe Quality Assurance Technique in detail. 7
- (c) Write safety measures against demolition. 7
- (d) Write the duties of a safety officer at construction site. 7