

Unit 9 - Week 8

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Program Evaluation and Review Technique (PERT)

PERT Problems-I

PERT Problems-II

Time Cost Trade Off (Crashing)

Project Network: Crashing Problems

Quiz : Assignment 8

Solution For Assignment 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

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WEEKLY FEEDBACK

Assignment 8

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-03-25, 23:59 IST.

1) Pessimistic time (t_p) is the longest possible time for an activity in PERT analysis. 1 point

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

2) Optimistic time (t_o) is the _____ time for an activity in PERT analysis. 1 point

- Shortest
 Longest

No, the answer is incorrect.
Score: 0

Accepted Answers:
Shortest

3) Direct cost is the cost associated with an activity which is directly dependent on the amount of resources and time required. 1 point

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

4) Pessimistic time (t_p), Most likely time (t_m) and Optimistic time (t_o) (in days) for an activity are 3, 2 and 1, respectively. The expected time (mean) of the activity is ____ day (s). 1 point

- 3
 2
 4
 1

No, the answer is incorrect.
Score: 0

Accepted Answers:
2

5) Project completion times may need to be shortened because of; 1 point

- Penalty clauses
 Need to put resources on a new project
 Promised completion dates
 All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

6) Choose the correct statements; 1 point

- Every activity (dummy activity) of the network or project consume resources and time. Hence, cost is associated with it.
 The fixed expenses are independent of time.
 The variable indirect expenses are dependent of time.
 All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

7) The important parameters required to calculate the cost slope are; 1 point

- 1 Crashing cost
2 Crashing time
3 Normal cost
4 Normal time

- 1, 2 and 3
 1, 2, 3 and 4
 1, 3 and 4
 1, 2 and 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
1, 2, 3 and 4

8) PERT stands for; 1 point

- Product Evaluation and Review Technique
 Project Evaluation and Relation Technique
 Project Evaluation and Review Technique
 Product Evaluation and Relation Technique

No, the answer is incorrect.
Score: 0

Accepted Answers:
Project Evaluation and Review Technique

9) The mean expected time (t_e) and variance (V_t) in case of PERT are given as; 1 point

- $(t_o + t_p + 4t_m)/6, ((t_o + t_p)/6)^2$
 $(t_o + 4t_p + t_m)/6, ((t_p - t_o)/6)^2$
 $(t_o + 4t_m + t_p)/6, ((t_p - t_o)/6)^2$
 $(4t_o + t_p + t_m)/6, ((t_p + t_o)/6)^2$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $(t_o + 4t_m + t_p)/6, ((t_p - t_o)/6)^2$

10) The direct cost for an activity _____ with the reduction in the activity duration and the indirect cost of the project _____ with increase in the project duration. 1 point

- Decreases, increases
 Increases, increases
 Increases, decreases
 Decreases, decreases

No, the answer is incorrect.
Score: 0

Accepted Answers:
Increases, increases