

X


<https://swayam.gov.in>

https://swayam.gov.in/nc_details/NPTEL

reviewer4@nptel.iitm.ac.in ✓

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Project management for managers (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc19_mg31/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Unit 9 - Week-8

Course outline

How to access the portal

Week-1

Week-2

Week-3

Week-4

Week-5

Week-6

Week-7

Week-8

- ☐ Lesson-36
Project Time Management- PERT Networks (unit? unit=61&lesson=62)

- ☐ Lesson-37
Project Time Management-

Assignment 8

The due date for submitting this assignment has passed. **Due on 2019-09-25, 23:59 IST.**
As per our records you have not submitted this assignment.

1) PERT analysis computes the variance of the total project completion time as:

1 point

- ☐ The sum of the variance of all activities in the project
- ☐ The sum of the variance of all activities on the critical path
- ☐ The sum of the variance of all activities not on the critical path
- ☐ he variance of the final activity of the project

No, the answer is incorrect.

Score: 0

Accepted Answers:

The sum of the variance of all activities on the critical path
 2) An activity has an optimistic time 15 days, a most likely time of 18 days, and a pessimistic time **1 point** 27 days. What is its expected time?

- ☐ 18 days
- ☐ 19 days
- ☐ 20 days
- ☐ 21 days

No, the answer is incorrect.

Score: 0

Accepted Answers:

19 days
 3) An activity has an optimistic time 11 days, a most likely time of 15 days, and a pessimistic time **1 point** of 23 days. What is its variance?

CPM (unit?
unit=61&lesson=63)

☐ Lesson-38
Project Time
Management-
Laddering in
PERT/CPM
(unit?
unit=61&lesson=64)

☐ Lesson-39
Probability
Models in
Networks- I
(unit?
unit=61&lesson=65)

☐ Lesson-40
Probability
Model in
Networks- II
(unit?
unit=61&lesson=66)

☐ Quiz :
Assignment 8
(assessment?
name=121)

☐ Feedback week-
8 (unit?
unit=61&lesson=67)

Week-9

Week-10

Week-11

Week-12

**DOWNLOAD
VIDEOS**

**Text
Transcription**

**WEEKLY
FEEDBACK
FORM**

- ☐ 15.6
☐ 16.33
☐ 4
☐ 2

No, the answer is incorrect.
Score: 0

Accepted Answers:

4

4) A project's critical path is composed of activities A, B and C. Activity A has standard deviation of 2,

activity B has a standard deviation of 1, and activity C has a standard deviation of 2.

What is the standard deviation of the critical path?

- ☐ 9
☐ 5
☐ 3
☐ 25

No, the answer is incorrect.
Score: 0

Accepted Answers:

3

5) In PERT/CPM, slack time is :

1 point

- ☐ Is the amount of time a task may be delayed without changing the overall project completion time
☐ Is the latest time an activity can be started without delaying the entire project
☐ Is a task or subproject that must be completed
☐ Marks the start or completion of a task

No, the answer is incorrect.
Score: 0

Accepted Answers:

Is the amount of time a task may be delayed without changing the overall project completion time

6) Four experts A, B, C, D examined an activity and arrived at the following time estimates. **1 point**

Determine which expert is more certain about his estimates of time:

Experts	Time Estimate		
	t_o	t_m	t_p
A	4	6	8
B	4	7	10
C	5	8	12
D	4	7	11

- ☐ A
☐ B
☐ C
☐ D

No, the answer is incorrect.
Score: 0

Accepted Answers:

A

7)

0 points

Questions 7 to 10 are linked questions use given data (use normal probability distribution table

for appropriate question, you can refer to video for table or other resources).

A project consists of seven activities with the following time estimates.

Activity	Predecessor activity	Optimistic time estimate (t_o)	Most likely time estimate (t_m)	Pessimistic time estimate (t_p)
A	-	2	5	8
B	A	2	3	4
C	A	6	8	10
D	A	2	4	6
E	B	2	6	10
F	C	6	7	8
G	D, E, F	6	8	10

Determine the critical path of the project.

- ☐ 1-2-3-5-6
- ☐ 1-2-4-5-6
- ☐ 1-2-5-6
- ☐ Inefficient data provided

No, the answer is incorrect.

Score: 0

Accepted Answers:

1-2-4-5-6

8) Find out the time required to complete the project.

1 point

- ☐ 22 weeks
- ☐ 28 weeks
- ☐ 17 weeks
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

28 weeks

9) Find out the standard deviation of the project.

1 point

- ☐ 1.414
- ☐ 2.414
- ☐ 1.69
- ☐ 2.25

No, the answer is incorrect.

Score: 0

Accepted Answers:

1.414

10) Find the probability that the project will be completed in 30 week or less.

1 point

- ☐ 0.92
- ☐ 0.65
- ☐ 0.95
- ☐ 0.98

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.92