X

Unit 9 - Week-8

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 27 days. What is its expected time? ***1 point***

- 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 of 23 days. What is its variance? ***1 point***

- 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? ***1 point***

- 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