

Unit 12 - Week 11

Course outline

How does an NPTEL online course work?

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Week 2

Week 3

Week 4

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Week 6

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Week 10

Week 11

Introduction to Project Management

PERT and CPM

PERT and Crashing

Maintenance Management

Maintenance Performance Measures and OEE calculations

Quiz : Assignment 11

Solution for Assignment 11

Week 12

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Assignment 11

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

Due on 2020-04-15, 23:59 IST.

- 1) Which of the following is not typically considered a project? 1 point
- Baking loaves of bread in a commercial bakery.
 - Planning the Rose Bowl game
 - Launching a satellite
 - Developing a military weapons system

No, the answer is incorrect. Score: 0

Accepted Answers: *Baking loaves of bread in a commercial bakery.*

- 2) Which of the following is not a side of Project Trilogy? 1 point
- Cost
 - Time
 - Human Resource
 - Scope

No, the answer is incorrect. Score: 0

Accepted Answers: *Human Resource*

- 3) Which of the following defines the purpose of the WBS? 1 point
- To identify activities
 - To determine project workloads
 - To identify relationships between modules and activities
 - All of the above

No, the answer is incorrect. Score: 0

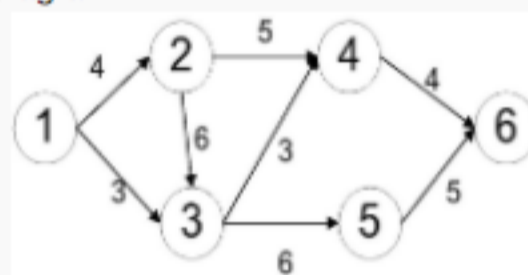
Accepted Answers: *All of the above*

- 4) Which of the following statements concerning a Gantt chart is true? 1 point
- Gantt charts are particularly helpful for scheduling and planning large projects.
 - Gantt charts are particularly helpful for scheduling and planning projects with complex precedence relationships.
 - The Gantt chart has been a popular project scheduling tool, but is not widely used now.
 - The Gantt chart indicates where extra time is available and activities can be delayed.

No, the answer is incorrect. Score: 0

Accepted Answers: *The Gantt chart indicates where extra time is available and activities can be delayed.*

- 5) Please refer following diagram: 1 point



Which of the following statement is correct?

- The critical path is 1-2, 2-3, 3-4, 4-6.
- Activity 3-4 has LS = 14 and LF = 17.
- Activity 5-6 has ES = 15 and LS = 20.
- Activity 2-4 has LS = 9 and LF = 14.

No, the answer is incorrect. Score: 0

Accepted Answers: *Activity 3-4 has LS = 14 and LF = 17.*

- 6) Please refer following table: 1 point

Activity	Time Estimates		
	a	m	b
1-2	6	10	12
1-3	8	12	15
1-4	4	12	14
2-5	6	8	9
3-5	2	6	13
4-5	6	12	18

Using the data in Table to calculate the expected time and variance for each activity, which of the following statements is true?

- The expected time for activity 1-4 is 10.00.
- The variance for activity 1-3 is 1.36.
- The largest expected time occurs for activity 1-3.
- The largest variance is for activity 3-5.

No, the answer is incorrect. Score: 0

Accepted Answers: *The variance for activity 1-3 is 1.36.*

- 7) Please refer following table: 1 point

Activity	Time Estimates		
	a	m	b
1-2	6	10	12
1-3	8	12	15
1-4	4	12	14
2-5	6	8	9
3-5	2	6	13
4-5	6	12	18

Using the data in Table, what is the total project variance if the critical path encompasses activities 1-4-5?

- 2.78
- 6.78
- 23.00
- none of the above

No, the answer is incorrect. Score: 0

Accepted Answers: *6.78*

- 8) In a CPM/PERT network, a dummy activity is necessary when 1 point

- two activities have the same starting node
- two activities have the same ending node
- a node does not actually connect to another node
- two activities share the same starting and ending node

No, the answer is incorrect. Score: 0

Accepted Answers: *two activities share the same starting and ending node*

- 9) Which of the following is not a proactive approach of maintenance? 1 point

- Inspection
- Repair
- Condition Monitoring
- Scheduled Maintenance

No, the answer is incorrect. Score: 0

Accepted Answers: *Repair*

- 10) Calculation of OEE involves following except 1 point

- Availability
- Performance efficiency
- Cost of maintenance
- Quality rate

No, the answer is incorrect. Score: 0

Accepted Answers: *Cost of maintenance*