**Module 3: Assessment (Graded)**

1.Question 1

Suppose, at the point in a project when requirements are elicited, the variability of estimates is 0.5x to 2.0x. And, at the point when potential approaches are formulated, the variability of estimates is 0.8x to 1.25x. You just started eliciting requirements for an app, and the development team estimates the activity to formulate potential approaches would take 2 days. What should be used as the estimated time to complete this activity?



2 days



4 days



1 to 4 days



1.6 to 2.5 days

**ANSWER:** (c) 1 to 4 days

2.Question 2

In estimating the duration to complete a project, the optimistic duration is 3 days, the pessimistic duration is 15 days, and the most probable duration is 6 days. What is the interval that would contain the actual duration about 95% of the time?



3 to 11 days



0 to 8 days



5 to 9 days



3 to 15 days

**ANSWER:** (a) 3 to 11 days

3.Question 3

For a software requirement, a development team is planning a task to write the implementation code and a task to write and run unit tests for that code. The two tasks can happen in parallel, but they specifically want some of these tests ready before writing the implementation code. What kind of task dependency is this between the coding and testing tasks?



Start-Finish



Finish-Finish



Finish-Start



Start-Start

**ANSWER:** (d) Start-Start

4.Question 4

A software product manager has a task to analyze the usage data for the features of a web application. After that task is done, there is a task to decide which popular features to incorporate into a mobile version of the application. What kind of task dependency is this between the analysis and decision tasks?



Start-Finish



Start-Start



Finish-Finish



Finish-Start

**ANSWER:** (d) Finish-Start

5.Question 5

In a CPM chart, the \_\_\_ represented tasks, while in a PERT chart, the \_\_\_ represented tasks.



nodes / edges



arrows / boxes



edges / nodes



critical path / program evaluation

**ANSWER:** (a) nodes / edges

6.Question 6

In a PERT chart, the nodes represented milestones. When multiple tasks lead directly out of a node, what does that mean?



The tasks can be done in parallel.



The tasks are on the critical path.



The tasks end by synchronizing at the milestone.



The tasks need to be done sequentially.

**ANSWER:** (a) The tasks can be done in parallel.

7.Question 7

For a project, the critical path from beginning to end, has \_\_\_.



the most tasks



the shortest duration



the longest duration



slack

**ANSWER:** (c) the longest duration

8.Question 8

In Scrum, an iteration plan is generated in a \_\_\_ meeting. The developers break down each user story into \_\_\_ with estimated times, which are \_\_\_.



sprint planning / features / self-assigned



sprint / a work breakdown structure / assigned by a manager



sprint planning / tasks / assigned by a manager



sprint planning / tasks / self-assigned

**ANSWER:** (d) sprint planning / tasks / self-assigned