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Agile & Lean Software Development

LATEST SUBMISSION GRADE

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1. What are some of the challenges with the Waterfall methods that prompted the software industry to come up with alternatives like Agile? (select 2)

1 / 1 point

✓ Incorrect interpretations of requirements by developers go undetected for a long time. During user acceptance tests, these issues are discovered but it is very late.

✓ **Correct**

In Waterfall methods, is there a way to get early feedback from users? If not, what will happen? Watch the video "Why Agile?"

☐ Projects cost too much.

☐ Projects were very complex and big.

✓ It is difficult to predict user/customer needs.

✓ **Correct**

One of the issues the software industry saw was that once a product was given to users after several years of development, users responded saying "This is not what I want". Watch the video "Why Agile?"

2. Which of the following statements aligns with the value "Working software over comprehensive documentation" of Agile manifesto? (select any 2)

1 / 1 point

☐ An Agile coach says to the team "Documentation is of no use."

✓ Value delivering software over writing documentation.

✓ **Correct**

Read the Agile Manifesto again especially the line that says "... we value the items on the left more" Also watch the Agile Manifesto video.

☐ A manager tells the team: "Writing certain documentation is company policy so we must create them irrespective of its use.

✓ If documentation is absolutely essential then create it.

✓ **Correct**

Read the agile manifesto again especially the line that says "... we value the items on the left more" Also watch the agile manifesto video.

3. Which one of the following statements/situations/conversations align with an Agile mindset?

1 / 1 point

☐ A manager providing a status update to a customer says: "We are done with requirements and design so we are 50% done."

☐ A manager e-mails her team: "Meeting face to face just for a 15 minute discussion is inefficient, let us all just dial-in from our desk."

☐ A software vendor says to a client: "We must define exactly what the user needs and put that in agreement."

⦿ Manager: "The customer is suggesting another change in feature X which is complete as per specification. They agree that it was built as we agreed upon but it lacks some functionality and will result in user frustration. Should we implement the change or not?"

Developer: "Yes, if it does not fulfill user needs, we should make the change."

✓ **Correct**

In an Agile mindset, we value responding to change over following a plan.

4. Which of the following is TRUE about lean startup? (select all that apply)

1 / 1 point

✓ Lean Startup concepts recommends to go through Build-Measure-Learn cycles as fast as you can.

✓ **Correct**

Watch the Lean Startup Video again to see if it wants to repeat fast or slower.

☐ Lean Startup concept is primarily applicable to startup companies. It is not applicable for bigger organizations.

✓ In Lean Startup, you try to validate/invalidate your assumptions (crucial for the success of your product) as fast as you can.

✓ **Correct**

One way to approach Lean Startup is to list the assumptions that must be true for your product to be successful, then identify how you can measure it and finally conduct an experiment to collect that data so you can validate if your assumption is going to hold true.

☐ The concept of "Validated Learning" in Lean Startup means validating your learning and new ideas with your manager before you implement.

5. Which of following is valid on a Kanban Board? (select any 2)

1 / 1 point

☐ Work items are pulled into the workflow from the backlog.

☐ WIP limit for Step X is 3. Step X is divided into "Doing" and "Done." Number of items in "Doing" column is 4, and number of items in "Done" column is 1. One of the items in the previous step is done and developer wants to move that item to Step X

☒ WIP limit for Step X is 5. Step X is divided into "Doing" and "Done." Number of items in "Doing" column is 3, and number of items in "Done" column is 1. One of the item in previous step is done and developer wants to move that item to Step X

✓ **Correct**

Watch Kanban Video. Number of total items in any column cannot exceed its WIP limit. In this case, if you add doing and done, how much does it total. Now if you add one more item from previous column, will it still be under the WIP limit?

☒ WIP limit for Step X is 3. Step X is divided into "Doing" and "Done." Number of items in "Doing" column is 2, and number of items in "Done" column is 1

✓ **Correct**

Correct. WIP limit is 3 and there are 3 items total in Step X.

☐ WIP limit for Step X is 3. Step X is divided into "Doing" and "Done." Number of items in "Doing" column is 3, and number of items in "Done" column is 2

☐ WIP limit for Step X is 3. Step X is divided into "Doing" and "Done." Number of items in "Doing" column is 4, and number of items in "Done" column is 0

6. Which of the following Framework/process model supports Agile Mindset? (select all that apply)

0.889 / 1 point

☐ Waterfall

☐ Sashimi

☐ Crystal

☒ Scrum

✓ **Correct**

There are many frameworks and model that supports Agile mindset. See Agile Framework Video.

☐ V-Model

☒ Lean Startup

✓ **Correct**

There are many frameworks and model that supports Agile mindset. See Agile Framework Video.

☒ DSDM

✓ **Correct**

There are many frameworks and model that supports Agile mindset. See Agile Framework Video.

☒ XP

✓ **Correct**

There are many frameworks and model that supports Agile mindset. It is very similar to Scrum. It is known for its engineering practices. See Agile Framework Video.

☒ Kanban

✓ **Correct**

There are many frameworks and model that supports Agile mindset. See Agile Framework Video.

You didn't select all the correct answers

7. A software development team just started using Kanban. They had the following columns with WIP limit of 3 for each column on their Kanban board from left to right: Backlog(3), Analysis(3), Development(3), Testing(3), Deployment

0.8 / 1 point

There are currently 3 items in Testing (3 items being tested)

Similarly, there are 3 items in Development column (2 items are in development and 1 item is done being developed)

One of the developers does not have anything to work on so the manager wants to add one more item to the development column so the developer looking for work can work on it.

Which one of the following would be a valid action in this situation? (Select any 3)

☒ Add another tester in the Testing team so this bottleneck can be resolved quickly.

✓ **Correct**

This sounds like valid action under the property of "Manage Flow" i.e. if it makes sense to add people to create smoother flow of work, we should adjust that.

☒ Team should get together and discuss if we should increase the WIP limit of the development column as we have more developers and it will be smoother flow if WIP limit of the Development column is increased.

✓ **Correct**

This sounds like valid action under the property of "Manage Flow" i.e. if it makes sense to have a higher limit to create smoother flow of work, we should adjust the WIP limits.

☐ The manager should ask the testers to move one of the items of the Test column temporarily to the Deployment column so that we can move items from the Development column. Later, we can move items back from the Deployment column to the Testing column.

☐ Manager should ask the developer waiting for work to help the testers so that they can finish one of the items from their column and move it to Deployment column.

☐ It does not make sense for the developer to wait before one of the items moved to another column. The manager should add one more item to the development column and no other change needed.

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You didn't select all the correct answers

8. In Scrum, when is the sprint backlog created?

1 / 1 point

- ☐ At the beginning of the project
- ☒ During the sprint planning meeting
- ☐ During the backlog refinement meeting
- ☐ Whenever needed

✓ **Correct**

Watch the Scrum video to understand when sprint backlog is created

9. In Scrum, how is Product Backlog Arranged?

1 / 1 point

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- ☐ Into categories, P1, P2, P3, etc.
- ☒ Most important items at the top, least important items at the bottom.
- ☐ Large items at the top, small items at the bottom
- ☐ Items are randomly arranged

✓ **Correct**

A team may need new items to work on. In that case, they pick top items from the product backlog. Should you prioritize by size or priority or something else? See Scrum overview video.

10. Which of the following is TRUE about Scrum? (Select all that apply)

1 / 1 point

- ☒ Scrum is an adaptive framework/model

✓ **Correct**

In scrum, requirements can change over the period of time and the product may look different than what was originally planned.

- ☒ Scrum has fixed time-boxed development cycles called sprints.

✓ **Correct**

Scrum recommends 1-4 weeks time-boxed sprints

- ☐ Daily Standup in Scrum is mainly for Scrum Master to get the status of the project.
- ☐ Scrum is the best way to Implement the Agile mindset. Other Agile methods are not as effective.