1. Select the option that suits the Manifesto for Agile Software Development  
   a) Individuals and interactions  
   b) Working software  
   c) Customer collaboration  
   d) All of the mentioned [d]
2. Agile Software Development is based on  
   a) Incremental Development  
   b) Iterative Development  
   c) Linear Development  
   d) Both Incremental and Iterative Development [d]
3. How many phases are there in Scrum?  
   a) Two  
   b) Three [b]   
   c) Four  
   d) Scrum is an agile method which means it does not have phases  
   Explanation: There are three phases in Scrum. The initial phase is an outline planning phase followed by a series of sprint cycles and project closure phase.
4. In agile development it is more important to build software that meets the customers’ needs today than worry about features that might be needed in the future.  
   a) True  
   b) False
5. Which of the following is a benefits of well defined SDLC
6. Reduce development cost
7. Faster time to market
8. Improved customer satisfaction
9. All of the above [d]
10. What is the purpose of the product backlog refinement?
11. It is a process for selecting the backlog items before sprint starts
12. It is a onetime selection process of backlog items during the sprint
13. It is continuous process to create actionable product backlogs [c]
14. All of above
15. How much time is preferable to spend on Product Backlog refinement?
16. 5% of its time for refinement
17. 10% of its time for refinement [b]
18. 15% of its time for refinement
19. None of above
20. An order of the Product Backlog Items should be based on \_\_ ?
21. Value and Risk
22. Work Estimates and Available expertise
23. Dependencies
24. All of above [d]
25. What is the best way to create Product Backlog Items?
26. collaborative and iterative approach with Development team
27. collaborative and iterative approach with whole scrum team [b]
28. collaborative and iterative approach with Product Owner
29. None of above
30. What are the typical pitfalls of Product Backlog refinement?
31. There are too many or not enough refinement sessions
32. Without involvement of Scrum team turning requirements into user stories
33. Not involvement whole team and stakeholders
34. All of above [d]
35. Identify the simplest model of SDLC?
36. Agile
37. RAD
38. Waterfall [b]
39. Spiral
40. Which is the following is the most important feature of the spiral model?
41. Efficiency management
42. Time management
43. Risk management
44. Quality management
45. Which of the following is the first step of SDLC?
46. Coding
47. Design
48. Preliminary Investigation and Analysis
49. Testing
50. What is the purpose of using the Fibonacci sequence (e.g., 1, 2, 3, 5, 8, 13, etc.) in Agile estimation?
51. To prioritize user stories
52. To assign story points for complexity estimation
53. To determine the sprint duration
54. To track individual team member’s velocity

Answer: b) To assign story points for complexity estimation

1. Which Agile practice involves the team reflecting on their performance to improve `effectiveness continuously?
2. Sprint Retrospective
3. Daily Stand-up
4. Sprint Planning
5. Backlog Refinement

Answer: a) Sprint Retrospective

1. Which Agile practice encourages the constant evolution and improvement of processes and teamwork?
2. Sprint Review
3. Daily Stand-up
4. Retrospective
5. Sprint Planning

Answer: c) Retrospective

1. The stakeholders’ role in Agile primarily involves:
2. Setting project timelines
3. Reviewing the product and providing feedback
4. Leading the daily stand-up meetings
5. Assigning tasks to team members

Answer: b) Reviewing the product and providing feedback

1. Which role in Agile is responsible for delivering a potentially releasable increment at the end of each sprint?
2. Scrum Master
3. Product Owner
4. Development Team
5. Agile Coach

Answer: c) Development Team

1. Lean methodology aims to:
2. Maximize efficiency by eliminating waste
3. Prioritize individuals and interactions over processes and tools
4. Use fixed-length iterations called sprints
5. None of the above

Answer: a) Maximize efficiency by eliminating waste

1. Which Agile approach emphasizes continuous improvement, workflow visualization, and limiting work in progress?
2. Scrum
3. Kanban
4. XP
5. Lean

Answer: b) Kanban

1. Which phase of the SDLC involves creating a detailed plan for the software project?
2. Requirements Analysis
3. Planning
4. Design
5. Implementation

Answer: b) Planning

1. What is the primary goal of Kanban?
2. Maximizing the utilization of resources
3. Minimizing the time spent on planning
4. Achieving a smooth, continuous flow of work
5. Completing as many tasks as possible in each sprint

Answer: c) Achieving a smooth, continuous flow of work

1. Which methodology focuses on breaking down features into small, manageable tasks?
2. TDD
3. BDD
4. Kanban
5. FDD

Answer: d) FDD (Feature-Driven Development)

1. Which phase of the SDLC involves coding and testing the software?
2. Requirements Analysis
3. Design
4. Implementation
5. Maintenance

Answer: c) Implementation

1. What is the primary advantage of using TDD?
2. Reduced development time
3. Improved code quality
4. Enhanced project management
5. Simplified deployment process

Answer: b) Improved code quality

1. How much time does each iteration in agile methodology take?

a) 1-2 weeks

b) 2-3 weeks

c) 1-4 weeks

d) 1-2 months

Answer: C) 1-4 weeks

1. Does agile methodology frequently ask user's feedback?

a) Yes

b) No

c) only when the project requirement needs

Answer: A) YES

1. Which of the following testing types is primarily focused on ensuring that the software system as a whole meets specified requirements and works as expected?

a) Unit testing

b) Integration testing

c) System testing

d) Acceptance testing

Answer: c) System testing

1. What is the recommended frequency for Sprint reviews in Agile development?

a) Weekly

b) Bi-weekly

c) Monthly

d) Quarterly

Answer: b) Bi-weekly

1. How long should a typical daily standup meeting last?

a) 15 minutes

b) 30 minutes

c) 45 minutes

d) 1 hour

Answer: a) 15 minutes

1. What is the purpose of the Requirements phase in SDLC?
2. To design the user interface
3. To gather and analyze project requirements
4. To develop the software code
5. To test the software for bugs

Answer: B) To gather and analyze project requirements

1. Which phase of SDLC involves creating detailed design specifications and architectural diagrams?
2. Testing
3. Implementation
4. Design
5. Deployment

Answer: C) Design

1. What is the primary goal of the Testing phase in SDLC?
2. To write the software code
3. To design the user interface
4. To verify that the software meets requirements and is bug-free
5. To gather project requirements

Answer: C) To verify that the software meets requirements and is bug-free

1. Which phase of SDLC involves deploying the software to the production environment?
2. Design
3. Implementation
4. Testing
5. Deployment

Answer: D) Deployment

1. What is a key principle of Agile methodologies?
2. Strict adherence to detailed documentation
3. Emphasis on following a rigid plan
4. Flexibility and adaptability to changing requirements
5. Long development cycles with minimal customer involvement

Answer : C) Flexibility and adaptability to changing requirements

1. How many components does the Kanban board have?
2. 3
3. 4
4. 5
5. 6

Answer: C) 5

Explanation

Kanban board has 5 components: Visual signals, columns, work-in-progress limits, a commitment point, and a delivery point.

1. Which of the following are involved in releasing the plan?
2. Product owner
3. Scrum master
4. Development team
5. Stakeholders

All of the above

Answer: E) All of the above

Explanation:

Following are involved in releasing the plan: product owner, scrum master, development team, and stakeholders.

1. Which of the following frameworks are used in agile methodology?
2. FDD
3. Kanban
4. Scrum
5. All of the above

Answer: D) All of the above

Explanation:

Kanban, scrum, and FDD are the most popular framework which is used in agile methodology.

1. A product is built in a series of repetitions called \_\_
2. Scrum
3. Kanban
4. Sprints

Answer: C) Sprints

Explanation: A product is built in a series of repetitions called Sprints.

1. is a framework that is used to execute agile software development. It also involves real-time communication of capacity and full transparency of work.
2. Scrum
3. Kanban
4. Sprints

Answer: B) Kanban

Explanation:

Kanban is a framework that is used to execute agile software development. It also involves real-time communication of capacity and full transparency of work.