

Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination May-2022
OE00015 Agile Development

Programme: B.Tech.

Branch/Specialisation: All

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which of the given options comes under the Agile Manifesto and its principles? **1**
(a) Collaboration with customer
(b) Making necessary changes whenever required in the project
(c) Interaction and self-organization
(d) All of these
- ii. Which one of the options is the main difference between scrum and agile? **1**
(a) Agile is a procedure whereas scrum is practice
(b) Scrum is a procedure and agile is a practice
(c) Scrum is a large spectrum whereas agile is the form of scrum itself
(d) Scrum is incremental and agile is not
- iii. What is the role of a scrum master in agile? **1**
(a) Management of the project team
(b) Team motivation
(c) Managing issues and problems of team and project
(d) All of these
- iv. Which of the following options is the type of an agile framework? **1**
(a) Kanban (b) Feature driver development
(c) Test-driven development (d) All of these
- v. What is a story point in the agile model? Choose one from the given options. **1**
(a) A state of the project
(b) The initial stage of a project
(c) Estimate of required efforts for a project
(d) None of these

P.T.O.

[2]

- vi. Which one of the options is the correct statement for the sprint planning meeting? **1**
 (a) A discussion between client, scrum master and the team
 (b) A meeting of only scrum team members
 (c) A meeting of scrum masters only
 (d) None of these
- vii. Which one of these is an open-ended cost structure- **1**
 (a) Fixed price structure
 (b) Time and materials project
 (c) Not to exceed project
 (d) Fixed time project
- viii. Scrum Team velocity can be increased by: **1**
 (a) Avoid project roadblocks
 (b) Solicit input from team
 (c) Both (a) & (b)
 (d) None of these
- ix. Optimal time to move to an agile approach from a traditional approach is- **1**
 (a) At the end of large project (b) Change in leadership
 (c) Both (a) & (b) (d) None of these
- x. “Diluting until dead” means- **1**
 (a) Trying to complete agile process in addition to waterfall processes
 (b) An ineffective or indecisive product owner
 (c) Watering down agile process with old waterfall habits
 (d) None of these
- Q.2 i. Write Agile Manifesto for Agile development. **2**
 ii. Describe Agile Litmus test. **3**
 iii. Describe Agile principles of customer satisfaction & principle of quality. **5**
- OR iv. Write benefits of Agile development. **5**
- Q.3 i. Compare Lean & Scrum. **2**
 ii. Describe various attributes which development team should embrace to change team philosophy. **8**
- OR iii. Describe key practices of Extreme programming. **8**
- Q.4 i. Define theme, feature & user stories. **3**

[3]

- ii. What do you mean by release planning? Describe steps to create a release plan. **7**
- OR iii. Define Sprint Backlog. Describe various activities performed in sprint planning meeting. **7**
- Q.5 i. Define velocity of scrum team. How it is calculated? **3**
 ii. Discuss the ways in which risk can be managed in agile development. **7**
- OR iii. Describe various proactive quality practices to improve quality of product. **7**
- Q.6 Attempt any two:
 i. Discuss the role of Agile Champion & Agile Transition team. **5**
 ii. Describe qualities of Scrum Master. **5**
 iii. Discuss key benefits of Agile project management. **5**

Scheme of Marking - OE00015 Agile Development

Q.1	i.	Which of the given options comes under the Agile Manifesto and its principles? (d) All of these	1
	ii.	Which one of the options is the main difference between scrum and agile? (b) Scrum is a procedure and agile is a practice	1
	iii.	What is the role of a scrum master in agile? (d) All of these	1
	iv.	Which of the following options is the type of an agile framework? (d) All of these	1
	v.	What is a story point in the agile model? Choose one from the given options. (c) Estimate of required efforts for a project	1
	vi.	Which one of the options is the correct statement for the sprint planning meeting? (a) A discussion between client, scrum master and the team	1
	vii.	Which one of these is an open-ended cost structure- (b) Time and materials project	1
	viii.	Scrum Team velocity can be increased by: (c) Both (a) & (b)	1
	ix.	Optimal time to move to an agile approach from a traditional approach is- (c) Both (a) & (b)	1
	x.	“Diluting until dead” means- (c) Watering down agile process with old waterfall habits	1
Q.2	i.	Write Agile Manifesto for Agile development.	2
	ii.	Agile Litmus test. As per explanation	3
	iii.	Agile principles of customer satisfaction Agile principle of quality	2 marks 3 marks
OR	iv.	Benefits of Agile development As per explanation	5 marks 5
Q.3	i.	Lean & Scrum each	(2*1) marks
	ii.	Each attribute	(2*4) marks
OR	iii.	Each practice of Extreme programming	(2*4) marks

Q.4	i.	Define theme Define feature Define user stories	1 mark 1 mark 1 mark	3
	ii.	Define release planning Steps to create a release plan- Revising the product backlog Creating the release plan	2 marks 2.5 marks 2.5 marks	
	OR iii.	Define Sprint Backlog Activities performed in sprint	2 marks (2.5 *2) marks	
Q.5	i.	Define velocity of scrum team Calculated method	1 mark 2 marks	3
	ii.	Discuss the ways in which risk can be managed in agile development.	7	
OR	iii.	Various proactive quality practices	(3.5*2) marks	7
Q.6		Attempt any two:		
	i.	Role of Agile Champion Agile Transition team	2 marks 3 marks	5
	ii.	Each quality of Scrum Master	(1*5) marks	
	iii.	Benefits of Agile project management	(1*5) marks	5
