

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering
End Sem Examination Dec-2023
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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. _____ is not an agile method. 1
(a) Extreme programming (b) Scrum
(c) Waterfall (d) Crystal
- ii. Which does not apply to agility to a software process? 1
(a) Uses incremental product delivery strategy
(b) Only essential work products are produced
(c) Eliminate the use of project planning and testing
(d) All of these
- iii. Scrum has _____ phases. 1
(a) Two
(b) Three
(c) Four
(d) Scrum is an agile method which means it does not have phases
- iv. On every how many weeks the increments are delivered in XP model? 1
(a) One (b) Two (c) Three (d) Four
- v. What should a development team do during a sprint planning meeting 1
when they have realized that they have selected more than the items
they can complete in a sprint?
(a) Get more developers onboard
(b) Get help from the other Scrum team members
(c) Work overtime
(d) Inform the product owner & take a call to remove some of the
sprint backlog items

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- vi. Burndown chart represents _____. **1**
 (a) Project Progress
 (b) Amount of remaining work with respect to time
 (c) The velocity of the team
 (d) The capacity of the team members
- vii. Which of the following are correct quality strategies of agile? **1**
 (a) Short feedback cycles (b) Milestone reviews
 (c) Dynamic code analysis (d) All of these
- viii. How do you create agile processes to manage unpredictability? **1**
 (a) Requirements gathering must be conducted very carefully
 (b) Risk analysis must be conducted before planning takes place
 (c) Software increments must be delivered in short time periods and must adapt to changes incrementally
 (d) All of these
- ix. What are the main responsibilities of a self-organizing development team? **1**
 (a) Monitor the projects performance and send a report to stakeholders
 (b) Create new product backlog items
 (c) Tasking the current Sprint Items
 (d) Develop the sprint backlog item
- x. When a team is successful? **1**
 (a) It should be encouraged to celebrate success only when the project is over
 (b) It should never celebrate as this wastes company money
 (c) It should never celebrate as this makes less successful teams feel bad
 (d) It should be encouraged to celebrate immediately
- Q.2 i. Define agile software development. Write down any three principles of agile manifesto. **4**
 ii. How is agile methodology different from traditional methodologies? **6**
 OR iii. What is the need for agile methods? State its significance. **6**
- Q.3 i. What is pair programming? What are the benefits of pair programming? **4**
 ii. Explain XP project lifecycle. Also explain the controversies in XP. **6**

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- OR iii. What is meant by lean approach? How does it work? **6**
- Q.4 i. What is an agile roadmap and product vision? **4**
 ii. What is meant by user stories? How are they used in Agile? Discuss with the help of suitable example. **6**
 OR iii. What is Burndown chart? Explain with an example. **6**
- Q.5 i. Explain the best practices to manage scrum. **4**
 ii. Explain with the help of suitable example that how Agile helps to build quality product. **6**
 OR iii. How business involvement and team motivation are managed in Agile product management? **6**
- Q.6 Attempt any two:
 i. Write major challenges include with Agile distributed teams. **5**
 ii. What are the key steps for planning an iteration? Illustrate a suitable workflow. **5**
 iii. What are the factors based on which one can estimate the cost of a feature? **5**

Marking Scheme
Agile Development (T) - OE00015 (T)

Q.1	i)	(c) Waterfall		1
	ii)	(c) Eliminate the use of project planning and testing		1
	iii)	(b) Three		1
	iv)	(b) Two		1
	v)	(d) Inform the Product Owner & Take a call to remove some of the Sprint Backlog Items		1
	vi)	(b) Amount of remaining work with respect to time		1
	vii)	(d) All of the above		1
	viii)	(c). Software increments must be delivered in short time periods and must adapt to changes incrementally		1
	ix)	(d). Develop the Sprint Backlog item		1
	x)	(d). It should be encouraged to celebrate immediately		1
Q.2	i.	Definition	2 Marks	4
		Principle & Manitestto	2 Marks	
	ii.	As per explanation/Explanation		6
OR	iii.	Methods	4 Marks	6
		Significance	2 Marks	
Q.3	i.	Definition	2 Marks	4
		Benefits	2 Marks	
	ii.	Explain XP	4 Marks	6
OR		Controversis	2 Marks	
	iii.	Lean	4 Marks	6
		How it works	2 Marks	
Q.4	i.	Road Map	2 Marks	4
		Vision	2 Marks	
	ii.	User Stories	2 Marks	6
OR		How they used	2 Marks	
	iii.	Burn down Chart	3 Marks	6
		Example	3 Marks	
Q.5	i.	As per description		4
	ii.	As per example & Description	6 Marks	6
OR	iii.	Business involvement	3 Marks	6

Team Motivation

3 Marks

Q.6

Attempt any two.

- i. As per description
- ii. As per description
- iii. As per description

5
5
5
