

Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering
End Sem (Even) Examination May-2019
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. End result of Agile development is: 1
- (a) Professional quality product fit for business
 - (b) Product as good as one from any other development model
 - (c) Product sufficient for purpose and not maintainable
 - (d) Technically perfect and refactored solution
- ii. What is the effect of having large visible project plan on a wall? 1
- (a) It is a fire risk and a health hazard
 - (b) It communicates progress to the team and other stakeholders
 - (c) It is dangerous, as management will misinterpret what the team is doing
 - (d) It is useless, as it does not allow the team to innovate
- iii. An Agile approach advocates which of the following approaches? 1
- (a) Deliver anything quick to save time
 - (b) Deliver simple and working product as quickly as possible
 - (c) Deliver something business-valuable as quickly as possible, consistent with the right level of quality
 - (d) Deliver once it has been fully documented as complete and unchangeable
- iv. Why is it important to trust the team? 1
- (a) Such teams need not be accountable to each other
 - (b) Such teams do not require a user representative
 - (c) Project Manager need not have to keep a project schedule
 - (d) Presence of trust is positively correlated with the team performance

P.T.O.

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v.	Which of the following best represents the Agile approach to planning? (a) It is not part of an Agile approach as it is exploratory (b) It should be done in detail at the outset of a project and not revisited (c) It should involve the whole team, not just the Project Manager (d) It should be done by the Project Manager	1
vi.	What is the effect of having large visible project plan on a wall? (a) It is a fire risk and a health hazard (b) It communicates progress to the team and other stakeholders (c) It is dangerous, as management will misinterpret what the team is doing (d) It is useless, as it does not allow the team to innovate	1
vii.	When handling team dynamics, the Agile Leader should ... (a) Empower the team members, within appropriate limits (b) Encourage an environment of competition and personal advantage (c) Give clear directives to the team about what they should do and how (d) Expect team members to be proactive and each work to their own priorities and objectives	1
viii.	Stand-up meetings are to be attended by: (a) Sponsor and Executive Management only (b) Whole team (c) Project Managers and Technical Leads only (d) Customers and Managers only	1
ix.	Which of the following is a characteristic of an Agile leader? (a) Task focused (b) Process oriented (c) Supportive (d) Disinterested	1
x.	The culture of working in an Agile team is: (a) Collaborative (b) Collective (c) Connective (d) Contemplative	1
Q.2	i. Define Agile Development Methodology.	2
	ii. State the benefits of Agile Development Processes.	3

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	iii.	Explain the values of Agile Manifesto and their importance.	5
OR	iv.	Write the twelve fundamental principles of Agile.	5
Q.3	i.	What are the characteristics of a good development team member?	3
	ii.	Compare Scrum Agile Framework and practices of Extreme Programming.	7
OR	iii.	“The focus of lean is business value and minimizing activities outside product development.” Justify.	7
Q.4	i.	What are the stages of Agile planning and execution?	4
	ii.	Elaborate the template for framing a vision statement and product roadmap.	6
OR	iii.	Illustrate the concept of product backlog.	6
Q.5	i.	How do we estimate the project timeline with velocity? How can increasing the velocity affect the cost of project?	4
	ii.	Compare and Contrast traditional and Agile scope management.	6
OR	iii.	What are the characteristics of servant-leader practices that benefit the team dynamics on an Agile project?	6
Q.6		Attempt any two:	
	i.	Characteristics of a good development team	5
	ii.	Scrum Master	5
	iii.	Strategy for successful Agile implementation	5

Marking Scheme
OE00015 Agile Development

Q.1	i.	End result of Agile development is:	1
		(a) Professional quality product fit for business	
	ii.	What is the effect of having large visible project plan on a wall?	1
		(b) It communicates progress to the team and other stakeholders	
	iii.	An Agile approach advocates which of the following approaches?	1
		(c) Deliver something business-valuable as quickly as possible, consistent with the right level of quality	
	iv.	Why is it important to trust the team?	1
		(d) Presence of trust is positively correlated with the team performance	
	v.	Which of the following best represents the Agile approach to planning?	1
		(c) It should involve the whole team, not just the Project Manager	
Q.2	vi.	What is the effect of having large visible project plan on a wall?	1
		(b) It communicates progress to the team and other stakeholders	
	vii.	When handling team dynamics, the Agile Leader should ...	1
		(a) Empower the team members, within appropriate limits	
	viii.	Stand-up meetings are to be attended by:	1
		(b) Whole team	
	ix.	Which of the following is a characteristic of an Agile leader?	1
		(c) Supportive	
	x.	The culture of working in an Agile team is:	1
		(a) Collaborative	
Q.2	i.	Agile Development Methodology.	2
		Definition	1.5 marks
		Diagram	0.5 mark
	ii.	Benefits of Agile Development Processes.	3
		At least five conceptually explained	
Q.2	iii.	Values of Agile Manifesto and their importance.	5
		4 points manifesto clearly explained	4 marks
		Diagram	1 mark
	OR	iv.	5
		Twelve fundamental principles of Agile.	
Q.3	i.	Characteristics of a good development team member	3

		At least three characteristics 1 mark for each (1 mark * 3)	
	ii.	Scrum definition	1 mark
		Extreme programming definition	1 mark
		Comparison	5 marks
OR	iii.	“The focus of lean is business value and minimizing activities outside product development.” Justify.	7
		Appropriate explanation	
Q.4	i.	Stages of Agile planning	3 marks
		Diagram	1 mark
	ii.	Template for framing a vision statement	4 marks
		Product roadmap.	2 marks
OR	iii.	Concept of product backlog.	6
Q.5	i.	How do we estimate the project timeline with velocity? How can increasing the velocity affect the cost of project?	4
		Definition	2 marks
		Effect on cost	2 marks
	ii.	Comparison traditional and Agile scope management.	6
		At least six points 1 mark for each (1 mark * 6)	
OR	iii.	Characteristics of servant-leader practices	6
		1 mark for each (1 mark * 6)	
Q.6		Attempt any two:	
	i.	Characteristics of a good development team	5
	ii.	Scrum Master	5
	iii.	Strategy for successful Agile implementation	5
