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Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-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. Agile software engineering encourages following: 1
 - (a) Late delivery of product
 - (b) Early incremental delivery of software
 - (c) Over Budget Product
 - (d) Sequential Process of development
 - ii. Most widely used approach to agile software development is: 1
 - (a) Waterfall Model (b) Spiral Model
 - (c) Extreme Programming (d) UML Model
 - iii. New functionality of a product is demonstrated in SCRUM at the end of 1
 - (a) Design (b) Testing (c) SPRINT (d) Product Deployment
 - iv. The core idea of lean is to 1
 - (a) Eliminate/reduce non-value-added activities.
 - (b) Perform software testing
 - (c) Preparation of design document
 - (d) Designing of GUI
 - v. A project is divided into small parts of work that can be incrementally developed and delivered over time boxes are called 1
 - (a) Test cases (b) Project Plan
 - (c) RMMM Plan (d) Sprints
 - vi. A prioritized list of project requirements or features that provide business value for the customer is known as 1
 - (a) Sprints (b) Backlog (c) XP (d) Spiral Model

P.T.O.

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	vii.	What is safe agile?	1
		(a) Sealed Agile framework (b) Sure Agile framework (b) Secure Agile framework (d) Safe Agile framework	
	viii.	How plan driven development different from agile development?	1
		(a) Outputs are decided through process negotiation during software development process (b) Specification, design, coding and testing are interleaved (c) Iteration occurs within activities (d) All of these	
	ix.	Who is responsible to measure the product's performance?	1
		(a) The scrum master (b) The delivery master (c) The product owner (d) The scrum team	
	x.	What is the end result of agile development?	1
		(a) Professional quality product fit for business. (b) Technical factored and perfect solution. (c) Product as good as other development model. (d) All of these	
Q.2	i.	Describe SDLC.	2
	ii.	What do you understand by Agile Modelling? Write one difference between agile and traditional modelling.	3
	iii.	Explain 12 principles that drive Agile Manifesto.	5
OR	iv.	Compare and contrast waterfall model with Agile Development.	5
Q.3	i.	What are big three in AGILE methodology?	2
	ii.	Explain in detail SCRUM Framework of Agile Development.	8
OR	iii.	What is Extreme Programming (XP) in Agile Methodology? How do you use it? Give an example.	8
Q.4	i.	What is a sprint in Agile? How do you measure the work done in a sprint?	3
	ii.	How is team organized in Agile Methodology? Explain agile team structure. What do you think should be the ideal size of a Scrum team?	7

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OR	iii.	What do you discuss in Daily stand up meeting? Where does automation fit into scrum? Do you see any disadvantage of using scrum?	7
Q.5	i.	What is the "time Boxing" of a scrum process called? What should be an ideal duration of a sprint?	4
	ii.	How do you measure the complexity or effort in a sprint? Is there a way to determine and represent it?	6
OR	iii.	How do you track your progress in a sprint?	6
Q.6		Attempt any two:	
	i.	Is it possible that you come across different story point for development and testing efforts? In that case how do you resolve this conflict?	5
	ii.	Apart from planning, review and retrospective, do you know any other ceremony in scrum? Can you give an example of where scrum cannot be implemented? In that case what do you suggest?	5
	iii.	What are the roles of a Scrum Master and Product owner? So in scrum which entity is responsible for deliverable? Scrum master or Product owner?	5

Marking Scheme
OE00015 Agile Development

Q.1	i.	Agile software engineering encourages following: (b) Early incremental delivery of software	1
	ii.	Most widely used approach to agile software development is: (c) Extreme Programming	1
	iii.	New functionality of a product is demonstrated in SCRUM at the end of (c) SPRINT	1
	iv.	The core idea of lean is to (a) Eliminate/reduce non-value-added activities.	1
	v.	A project is divided into small parts of work that can be incrementally developed and delivered over time boxes are called (d) Sprints	1
	vi.	A prioritized list of project requirements or features that provide business value for the customer is known as (b) Backlog	1
	vii.	What is safe agile?	1
	viii.	How plan driven development different from agile development? (c) Iteration occurs within activities	1
	ix.	Who is responsible to measure the product's performance? (c) The product owner	1
	x.	What is the end result of agile development? (a) Professional quality product fit for business.	1
Q.2	i.	SDLC Naming 1 mark Description 1 mark	2
	ii.	Definition of Agile Modelling 2 marks One difference b/w agile and traditional modelling 1 mark	3
	iii.	12 principles that drive Agile Manifesto. Stepwise marking	5
OR	iv.	At least five comparison waterfall model with Agile Development 1 mark for each comparison (1 mark * 5)	5
Q.3	i.	Big three in AGILE methodology Naming 1 mark Description 1 mark	2

	ii.	SCRUM Framework of Agile Development		8
		Roles	2 marks	
		Artifacts	2 marks	
		Events	2 marks	
OR	iii.	Diagram	2 marks	
		Definition of Extreme Programming (XP)	4 marks	8
		Principle	3 marks	
		Example	1 mark	
Q.4	i.	Sprint in Agile	2 marks	3
		Measure the work done in a sprint	1 mark	
	ii.	Organisation of team in Agile Methodology	3 marks	7
OR	iii.	Agile team structure	3 marks	
		Ideal size of a Scrum team	1 mark	
		Daily stand up meeting	3 marks	7
		Automation fit into scrum	3 marks	
Q.5	ii.	Disadvantage of using scrum	1 mark	
		Time Boxing of a scrum process called	3 marks	4
		Ideal duration of a sprint	1 mark	
		Measure the complexity or effort in a sprint	3 marks	6
OR	iii.	Way to determine and represent it	3 marks	
		Three methods to track your progress in a sprint		6
		2 marks for each method (2 marks *3)		
Q.6	Attempt any two:			
	i.	Is it possible that you come across different development and testing efforts	story point for 1 mark	5
		How do you resolve this conflict	4 marks	
	ii.	Any other ceremony in scrum	3 marks	5
		Example of where scrum cannot be implemented	1 mark	
		Suggestion	1 mark	
	iii.	Roles of a Scrum Master and Product owner	2 marks	5
		Responsible for deliverable	2 marks	
		Scrum master or Product owner	1 mark	
