Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering End Sem Examination May-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.

ecess	ary. No	otations and symbols have their usual meaning.							
Q.1	i.	Agile Software Development is based on- (a) Incremental development (b) Iterative development							
	ii.	(c) Linear development (d) Both (a) and (b) Which of the following is not an agile method?	1						
	11.	(a) XP (b) 4GT (c) AUP (d) All of these	1						
	iii.	How many phases are there in scrum? (a) Two	1						
		(b) Three							
		(c) Four							
		(d) Scrum is an agile method which means it does not have phases							
	iv.	four framework activities found in the extreme	1						
		programming.							
	(a) Analysis, design, coding, testing								
		(b) Planning, analysis, design, coding(c) Planning, design, coding, testing							
		(d) Planning, analysis, coding, testing							
	v.	Which of the following does not apply to agility to a software process?							
		(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							

P.T.O.

[2]

	vi.	Product backlog should be o	backlog should be ordered on the basis of 1					
		(a) Value of the items being delivered						
		(b) The complexity of the items being delivered						
		(c) Size of the items being d	elivered					
		(d) The risk associated with	the items					
	vii.	Which of the following process is concerned with analysing the						
	costs and benefits of proposed changes?							
		(a) Change management	_					
		(c) System building	(d) Release management					
	viii.	. , ,	ur plans for risk mitigation and revise	1				
	these when you learn more about the risk?							
		(a) Risk monitoring	(b) Risk planning					
		(c) Risk analysis	(d) Risk identification					
	ix.	•	ls that very frequent system builds	1				
	should be carried out with automated testing to discover soft							
		problems?						
		(a) Agile method	(b) Parallel compilation method					
		(c) Large systems method	*					
	х.	Over?	1					
		(a) After completing all the sprint backlog items						
	(b) After completing all the sprint backlog tasks							
		(c) After completing the final testing (d) When the time box expires						
		1						
Q.2	i.	What are some important parts of agile process?						
	ii.	What are agile methods? What are the principles behind agile 6						
		manifesto?	1 1					
OR	iii.	Differentiate between the agile software development model and 6						
		waterfall model.						
Q.3		Attempt any two:						
	i.	What is meant by lean approach? How does it work? 5						
	ii.	Explain various roles in agile process. How are these roles 5						
		different from traditional rol						
	iii.	What are various advanced	scrum applications? Explain each of	5				
		them.	**					

[3	1
L -	_

Q.4	i.	How do you write a product vision in scrum?	3
	ii.	What is the working principle of agile? What value is provided by agile? Discuss.	7
OR	iii.	What is the purpose of sprint retrospective in scrum? Also explain sprint planning.	7
Q.5	i.	What are the most critical agile metrics?	4
	ii.	List some agile project management tools and their roles in project planning.	6
OR	iii.	Explain risk management in agile.	6
Q.6		Attempt any two:	
	i.	When we should not use agile? Write major challenges with agile project management.	5
	ii.	What are the essential qualities to have as a scrum master?	5
	iii.	Explain tools used for agile project management.	5

Marking Scheme OE00015 Agile Development

		OE00015 Agile Development						
Q.1	i)	Agile Software Development is based on d) Both Incremental and Iterative Development	1	Q.3		Attempt any two:		
	ii)	Which of the following is not an agile method?	1		i.	Lean approach	-2 marks	5
		b) 4GT				How it works	-3 marks	
	iii)	How many phases are there in Scrum?	1		ii.	roles in Agile process	-3 marks	5
		b) Three					-2 marks	_
	iv)	four framework activities found in the	1		iii.	Scrum applications	-2 marks	5
		Extreme Programming.				Explanation	-3 marks	
	,	c) planning, design, coding, testing						
	v)	Which of the following does not apply to agility to a software process?	1	Q.4	i.	write a product vision in scrur	m -3 marks	3
		c) Eliminate the use of project planning and testing			ii.	working principle of Agile	-4 marks	7
	vi)	Product Backlog should be ordered on the basis of	1			Values provided	-3 marks	
		,		OR	iii.	purpose of sprint retrospective		7
		a) Value of the items being delivered				sprint planning.	-3 marks	
	vii)	Which of the following process is concerned with analysing the	1					
		costs and benefits of proposed changes?		Q.5	i.	4 metrics -4 marks	S	4
	···ii)	a) Change management What assess the risk and your plans for risk mitigation and rayise	1		ii.	agile project management tool	ls -3 marks	6
VI	viii)	What assess the risk and your plans for risk mitigation and revise these when you learn more about the risk?	1			roles	-3 marks	
		a) Risk monitoring		OR	iii.	Risk management description	-6 marks	6
ix)		Which method recommends that very frequent system builds	1					
)	should be carried out with automated testing to discover software	•	0.6		A 44 amount a const torsion		
		problems?		Q.6		Attempt any two:		
		a) Agile method			i.	Reason not use agile	-2 marks	5
	x)	In Scrum, when is a Sprint Over?	1			Challenges	-3 marks	
		d) When the time box expires			ii.	Essential qualities	-5 marks	5
					iii.	At least two tools	-5 marks	5
Q.2	i.	4 parts -4 marks	4					
	ii.	Agile methods -2 marks	6			***	**	
		Principles -4 marks						

OR iii. At least 6 differences -6 marks

6