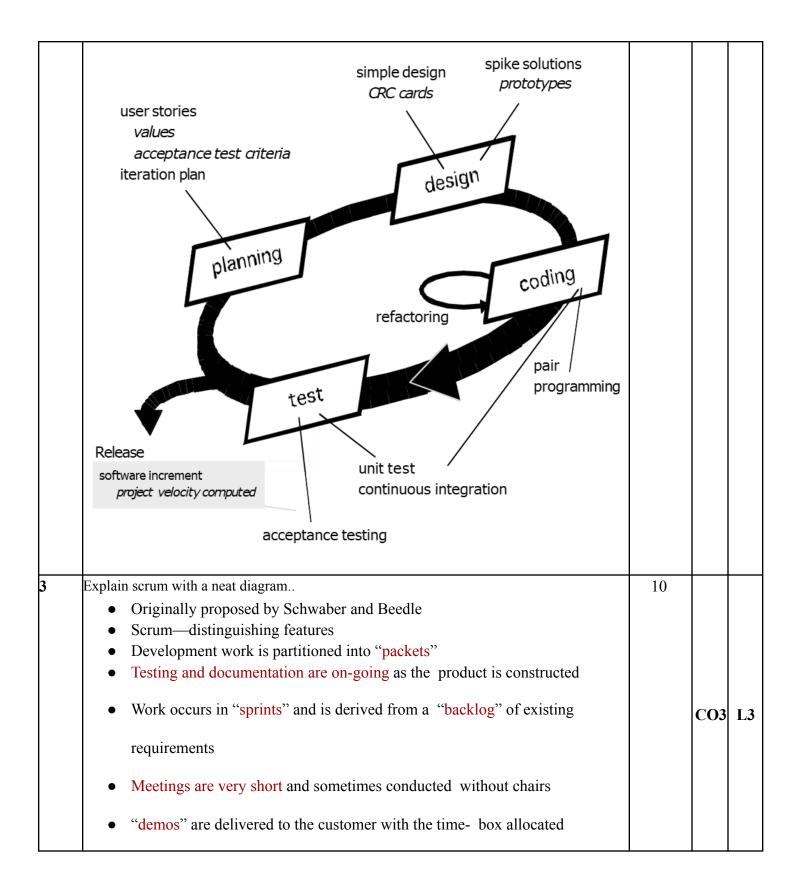


			essment Test 2 ry 2024						
ub:	Software Engineering and Project Management		Sub Code:	21CS61	Branch:	AIM	<b>1</b> L		
ate	8/07/24		Max Marks: 50	Sem:		V1		OB	
•		An	swer any FIVE Questions	<u>FULL</u>	<b>'</b>	N	larks	СО	R
1	What is a	n agile process? <b>F</b>	Explain agility p	orinciple			10		
		by customer descri	•	s required (scenar	rios)				
		es that plans are sh							
	1	software iteratively		emphasis on cons	truction activiti	ies			
		nultiple 'software	increments'						
	-Adapts as	changes occur							
	delivery of	est priority is to valuable software.  changing require		-					
	harness change for the customer's competitive advantage.						CO <sub>3</sub>	]	
	3.Deliver v	working software	frequently, from	n a couple of w	veeks to a co	uple of			
	months, wit	th a preference to t	the shorter times	cale.					
	4.Business	people and develo	pers must work	together daily thr	roughout the pr	roject.			
		ojects around mot y need, and trust th			the environme	ent and			
		efficient and effect ont team is face—to—			mation to and v	within a			
	7.Working	software is the prin	mary measure of	progress.					
	8.Agile pro	cesses promote su	stainable develo	opment. The spor	nsors, develope	ers, and			
	users should	d be able to maint	ain a constant pa	ace indefinitely.					

9.Continuous attention to technical excellence and good design enhances agility.			
10.Simplicity – the art of maximizing the amount of work not done – is essential.			
11. The best architectures, requirements, and designs emerge from self-organizing			
teams.			
12.At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.			
Explain the extreme programming with a neat diagram.  • The most widely used agile process, originally proposed by Kent Beck	10		
XP Planning			
Begins with the creation of "user stories"			
Agile team assesses each story and assigns a cost			
Stories are grouped to for a deliverable increment			
<ul> <li>A commitment is made on delivery date</li> <li>After the first increment "project velocity" is used to help define subsequent delivery dates for other increments</li> </ul>			
XP Design			
Follows the KIS principle			
• Encourage the use of CRC cards (see Chapter 8)			
• For difficult design problems, suggests the creation of "spike solutions"—a			
design prototype		CO3	I
• Encourages "refactoring"—an iterative refinement of the internal program			
design			
XP Coding			
• Recommends the construction of a unit test for a store <i>before</i> coding			
commences			
• Encourages "pair programming"			
XP Testing			
<ul> <li>All unit tests are executed daily</li> <li>"Acceptance tests" are defined by the customer and excuted to assess</li> </ul>			
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4	<ul> <li>Explain agile modeling principles.</li> <li>Principle #1. The primary goal of the software team is to build software, not create models.</li> <li>Principle #2. Travel light—don't create more models than you need.</li> <li>Principle #3. Strive to produce the simplest model that will describe the problem or the software.</li> <li>Principle #4. Build models in a way that makes them amenable to change.</li> <li>Principle #5. Be able to state an explicit purpose for each model that is created.</li> <li>Principle #6. Adapt the models you develop to the system at hand.</li> <li>Principle #7. Try to build useful models, but forget about building perfect models.</li> <li>Principle #8. Don't become dogmatic about the syntax of the model. If it</li> <li>communicates content successfully, representation is secondary.</li> <li>Principle #9. If your instincts tell you a model isn't right even though it</li> <li>seems okay on paper, you probably have reason to be concerned.</li> <li>Principle #10. Get feedback as soon as you can.</li> </ul>	10	CO3	L3
5	Explain the activities covered by software project management.  "A software project is not only concerned with the actual writing of software. In fact, where a software application is bought in "of the shelf", there may be no software writing as such, but this is still fundamentally a software project because so many of the other activities associated with software will still be present.	10	CO4	L3

	Feasibility study  How do we do it?  Plan  Do it!  Project excution			
6	Differentiate between jobs and projects. How are software projects distinct from other types of projects? Justify your answer.  'Jobs' – repetition of very well-defined and well understood tasks with very	10		
	little uncertainty			
	'Exploration' – e.g. finding a cure for cancer: the outcome is very uncertain 'Projects' – in the middle!			
	• <u>Invisibility</u> : With software, progress is not immediately visible		CO4	L3
	•Complexity: Per dollar, software products contain more complexity than other engineered artefacts			
	• <u>Conformity</u> : Software developers have to conform to the requirements of human clients			
	• <u>Flexibility</u> : Software systems are particularly subject to change			