			Reg. No. :												
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Question Paper Code: U4F06															
B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024															
			Foi	ırth	Sem	ester	•								
			Computer	Scie	ence	and	Desi	gn							
			21UCD406 A	GILI	E MI	ETH	ODC	DLO	GIES						
			(Re	gulat	ions	202	1)								
Dura	ation:	Three hours								ľ	Maxi	mun	n: 10	0 Ma	arks
			Answ	er A	ll Qu	iestic	ons								
			PART A -	(10	x 2 =	= 20	Mar	ks)							
1.	List the types of software models.							CO1	-U						
2.	Illustrate the phases involved in spiral model.								CO1	-U					
3.	What are the 5 SCRUM values?								CO1	-U					
4.	What is burn down chart?							CO1	-U						
5.	Define the Osmotic communication.							CO1	-U						
6.	Write short notes on Spaghetti code.							CO1	-U						
7.	What are the thinking tools of the lean value, "empowering the team"?							CO1	-U						
8.	Describe the two thinking tools that Lean provides to help you get your brain CO1-U around integrity.							-U							
9.	Give an example to illustrate Interface Segregation Principle.								CO1	-U					
10.	Mention the core classes in xUnit architecture								CO1	-U					
			PART	- B ([5 x]	16=8	30 M	arks)						
11.	(a)	Explain in deta Life Cycle.	ail the phases inv	olve	ed in	Sof	twar	e De	velo	pmer	nt C	CO1-	U	((16)
	(b)	Evolain in data)r	1-1		aat -	1:0~-	0.100		ſ		TT	1	16)
	(b)	Explain in deta	il about the Spiral	moc	del w	vith n	eat c	liagr	am.		(CO1-	U	((16)

- 12. (a) A company wants to develop an e-commerce website for CO2-App (16) promoting its products. They approach a software development team to develop it. The team decides to go with the Scrum methodology. Write the user stories with acceptance criteria for any four types among the five given below.
 - Behavior-driven stories
 - Rules-driven stories
 - Content-driven stories
 - Improvement stories
 - Integration stories

Or

- (b) A team using Agile methodology is developing a website for CO2-App (16) uploading the achievements of pets of customers through videos. The website should have the option for the viewers to provide a 5-star rating for the videos they are watching. Write user stories with acceptance criteria for any four types among the five given below.
 - Behavior-driven stories
 - Rules-driven stories
 - Content-driven stories
 - Improvement stories
 - Integration stories

13.	(a)	Explain the planning and team practices of XP.	CO1-U	(16)
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- Or
- CO1-U (16)
- (b) Write notes on the following: CO1-U
 Code smells, Spaghetti code, Lasagna code, hooks, and edge cases
- 14. (a) Describe how XP teams and Lean teams utilize a technique called CO1-U (16) Five Whys to figure out the root cause of a problem.
 - Or
 - (b) Explain in detail the values of Kanban methodology. CO1-U (16)

15. (a) Our banking application supports two account types – "current" CO2-App (16)"savings". These and are represented by the classes CurrentAccount and SavingsAccount respectively. The *BankingAppWithdrawalService* serves the withdrawal functionality to its users. Unfortunately, there is a problem with extending this design. The Banking App Withdrawal Service is aware of the two concrete implementations of account. Therefore, the Banking App Withdrawal Service would need to be changed every time a new account type is introduced. Apply the open/closed principle and justify your answer with appropriate class diagrams.

Or

(b) Apply the Interface Segregation principle for a burger place CO2-App (16) where a customer can order a burger, fries, or a combo of both.
 Identify the Code Smells for ISP violations and fix them.

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