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R13

Set No. 1

IV B.Tech I Semester Regular/Supplementary Examinations, October/November - 2017 UML AND DESIGN PATTERNS

(Common to Computer Science and Engineering and Information Technology) Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

1.	a)	What is OOAD? Briefly explain its origin and how it is used.	[3]
	b)	What is inception? Explain the artifacts of inception.	[4]
	c)	Define SSD with an example.	[4]
	d)	Define design pattern? What is the actual purpose of it?	[3]
	e)	List out the UML diagrams. Explain which diagrams are static and dynamic.	
		Why?	[4]
	f)	Explain the contents and the different relationships used in use case?	[4]
		<u>PART-B</u> $(3x16 = 48 Marks)$	
2.	a)	Briefly describe how the OOAD and UML helps in project development.	[8]
	b)	Explain what are the mapping disciplines to UML artifacts?	[8]
3.	a)	What is meant by FURPS? Explain briefly?	[8]
	b)	Briefly explain what are the use case types and formats	[8]
4.	a)	What are the interaction diagrams? Briefly explain with examples.	[8]
	b)	Define and differentiate the sequence diagram and system sequence diagram	
	,	with example?	[8]
_	``		501
5.	a)	Discuss about indirection pattern with example.	[8]
	b)	What is singleton? Explain how it helps in communication with an example	501
		and its code?	[8]
6.	a)	What are activity diagrams? Explain briefly.	[8]
	b)	Explain object diagram with example.	[8]
	,		
7.	a)	What are the dependency relationships in use case? Explain with notations and	
	,	examples?	[8]
	b)	Draw use case diagram for online shopping.	[8]



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IV B.Tech I Semester Regular/Supplementary Examinations, October/November - 2017 **UML AND DESIGN PATTERNS** (Common to Computer Science and Engineering and Information Technology) Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B ***** PART-A (22 Marks) 1. a) What is the difference between UML and OOAD? [3] b) How the requirement analysis can be done? [4] Explain How to identify concepts in domain model? [4] c) What is meant by persistent storage? Where it is used and why? [4] d) Differentiate state chart and activity diagram? [4] e) What is meant by generalization and where it is used? f) [3] <u>PART-B</u> (3x16 = 48 Marks)Explain iterative development and unified process 2. a) [8] Define UML. How it is used? What actually it deals about and its contents? [8] b) Explain the use case diagram for a library management system 3. a) [8] What are the goals and scope of a use case b) [8] Discuss about Use case realizations? Explain with the help of GRASP patterns. 4. a) [8] Draw the class diagram for customer support system. b) [8] Briefly Explain singleton design pattern 5. a) [8] Explain how the problem of assigning responsibilities can be solved? Give b) example. [8] Give an overview on component diagram [8] 6. a) Draw the sequence diagram for library management system? [8] b) What is generalization? Explain how it is used in use case model with an 7. a) example? [8] What are the domain model refinements? [8] b)

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UML AND DESIGN PATTERNS (Common to Computer Science and Engineering and Information Technology) Time: 3 hours Max. Marks: 70						
		Answer ALL sub questions from Part-A				
		Answer any THREE questions from Part-B *****				
		PART-A (22 Marks)				
1.	a)	What are the typical activities in OOAD?	[4]			
1.	a) b)	Define UP context and UP artifacts				
	c)	What is the process of adding associations in a domain model	[4]			
	d)	Explain the fabrication design pattern.	[4]			
	u) e)	What is the goal of a component diagram?	[4] [3]			
	c) f)	How to identify things in domain model?	[3]			
	1)	now to identify unings in domain model?	[2]			
		<u>PART-B</u> $(3x16 = 48 Marks)$				
2.	a)	What is a design pattern and explain the goals for a good design?	[8]			
	b)	Discuss about UML artifacts and SDLC phases and how they can be mapped?	[8]			
3.	a)	Explain the elements and sections of a use case.	[8]			
	b)	Draw the use case diagram for point of sale.	[8]			
4.	a)	Design class diagrams for case study with the skeleton code.	[8]			
	b)	Give an account on sequence diagram with an example.	[8]			
5.	a)	Explain how fabrication solve the problem of elements having high coupling.	[8]			
	b)	What is indirection? Briefly explain	[8]			
~	`		101			
6.	a)	Give an overview on Object Diagrams.	[8]			
	b)	Explain how fork and join help in activity diagram with example.	[8]			
7.	a)	What is the architecture of a domain model? Explain with a neat sketch.	[8]			
	b)	Explain in detail about the total relationships in UML and define how many				
		relationships are used for use case.	[8]			

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Set No. 4

IV B.Tech I Semester Regular/Supplementary Examinations, October/November - 2017 **UML AND DESIGN PATTERNS**

(Common to Computer Science and Engineering and Information Technology) Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

1.	a)	What are the UML artifacts? Explain	[4]
	b)	How to identify additional requirements?	[4]
	c)	Define elaboration? Explain its process	[4]
	d)	What is the design pattern for solving the privacy issue? Explain.	[4]
	e)	Differentiate between class and activity class.	[3]
	f)	What is the difference between note and node.	[3]
		<u>PART-B</u> $(3x16 = 48 Marks)$	
2.	a)	Give an account on MVC architecture with a neat diagram?	[8]
	b)	What are the UML diagrams? Explain them with notations and the relations	
		ships used?	[8]
3.	a)	Explain the process of writing requirements for the case study in the use case	
		model	[8]
	b)	Discuss about contents in a use case diagram and explain how it can be drawn	
		with an example.	[8]
4.	a)	Design class diagrams in each MVC layer.	[8]
	b)	How the mapping can be done from design to code	[8]
	,		
5.	a)	Briefly explain about façade	[8]
	b)	Explain about publish – subscribe design pattern	[8]
6.	a)	Briefly explain component diagram.	[8]
	b)	Draw a State chart Diagram for library management system.	[8]
	,		
7.	a)	Explain in detail about the packaging model elements	[8]
	b)	Draw use case diagram for ATM.	
			[8]

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