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Reg. No.:			·		:		

Question Paper Code: 21392

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Sixth Semester

Computer Science and Engineering

CS 2353/CS 63/10144 CS 603 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to Information Technology)

(Regulations 2008/2010)

(Common to PTCS 2353/10144 CS 603 — Object Oriented Analysis and Design for B.E. (Part-Time) Fifth Semester — Computer Science and Engineering — Regulations 2009/2010)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

 $PART A - (10 \times 2 = 20 \text{ marks})$

- 1. What is UML?
- 2. List the phases of Unified Process.
- 3. Why a domain model is called as visual dictionary?
- 4. With an example, differentiate aggregation and composition.
- 5. What is the need for drawing sequence diagram?
- 6. Mention any two benefits of using layers in software design.
- 7. What do you mean by patterns?
- 8. Describe the types of responsibilities.
- 9. Write an operation contract for enterItem system operation.
- 10. Define component.

PART B —
$$(5 \times 16 = 80 \text{ marks})$$

11. (a) The Insurance Claim Management System(ICMS) is a web-based application, designed to cover a wide range of insurance company and management processes. It provides relevant information across the insurance company to support effective decision making for clients, insurance administration, claim and financial accounting in a seamless flow. For the ICMS system,

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		(i) Write the requirement statement.	. (4)			
		(ii) Identify actors, use cases and draw the primary use case	diagram.			
	•		(4)			
		(iii) Draw the state chart diagram for the system.	(4)			
•		(iv) Draw the activity diagram for any one primary activity.	(4)	-		
		\mathbf{Or}	•			
	(b)	(i) Discuss about inception and its artifacts.	(8)			
•		(ii) What are the three common use case formats? Write the for the process sale of POS system.	ne use case (8)	•		
12.	(a)	(i) Discuss the strategies to find conceptual classes.	(8)			
	-	(ii) Write short notes on UML activity diagrams.	(8)			
		\mathbf{Or}				
	(b)	Explain the multiplicity of links and associations in class a your own example.	nodel with (16)			
13.	(a)	With the neat diagrams, discuss the different notations used for sequence diagram.	or drawing (16)			
•		\mathbf{Or}				
-	(b)	(i) Discuss about logical architecture refinement.	(8)			
		(ii) With an example, discuss the relationship between diagram and use cases.	sequence (8)			
14.	(a)	Explain the GoF patterns with example.	(16)			
		\mathbf{Or}				
• .	(b)	(i) Define visibility. Explain the types of visibility with exan	ples. (8)			
		(ii) Explain any four GRASP patterns for the object design o game.				
15. (a)		Write short notes on:				
		(i) Mapping design to codes.	(8)			
•		(ii) Applying state machine diagrams.	(8)			
		\mathbf{Or}	•	•		
•	(b)	Discuss in detail about UML deployment and component diagr	ams. (16)			