Code No.: 6357/N

FACULTY OF INFORMATICS B.E. 3/4 (I.T.) II Semester (New) (Supple.) Examination, December 2009 OBJECT ORIENTED SYSTEM DEVELOPMENT

Time: 3 Hours [Max. Marks: 75

Note: Answer all questions from Part A. Answer any five questions from Part B.

	PART - A	(25 Marks)
1.	What is UML? Where can the UML be used?	3
2.	Distinguish between 'Sequence diagram' and "Collaboration diagram'	". 3
3.	Define the following terms: a) use case b) actor.	2
4.	Name standard stereo types that apply to 'Active Classes'.	2
5.	Mention any two advantages of component diagram.	2
6.	Describe about 'Deployment Model'.	3
7.	What are the benefits of 'Unified Process'? Explain.	3
8.	What is an Iteration?	2
9.	What is a 'Business Model' ? Explain.	2
10.	What are the core work flows?	3
	PART – B	(50 Marks)
11.	Describe the basic structural modeling with the help of	10
	A) Classes	
	B) Relationships	
,	C) Common mechanisms	
]	D) Diagrams.	



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12. a) Discuss the following concepts of activity diagrams: Transitions, Branching, Fork and Join, Swim lanes.	6
b) What are state machines ? Explain-States and Transitions.	4
13. a) Explain the concepts of - "patterns" and "frame works".	4
b) Explain the common uses and contents of deployment diagram.	6
14. a) Discuss the life of the 'unified process'.	6
b) Describe how it is useful to formalize the use-case descriptions.	4
15. a) Give a brief description of how an analysis model can be compared with a design model.	
b) Discuss the work flow in implementation, including the participating workers and their activities.	200 103 77
16. a) What is the difference between an event and a guard?	5
b) What is the difference between an event and an action?	(B)
17. Write short notes on the following:	
a) Class diagram	3
b) Collaboration	4
c) Worker.	3



FACULTY OF INFORMATICS B.E. 3/4 (IT) II Semester (Main) Examination, May/June 2012 OBJECT ORIENTED SYSTEM DEVELOPMENT

Time: 3 Hours] [Max. Marks : 75

Note: Answer all questions from Part A. Answer any five questions from Part B.

	PART - A	25 Marks
1.	What is UML and where can UML be used?	2
2.	Depict a class diagram and explain briefly.	
	Sketch a state chart diagram and explain briefly	3
	Define Interface and Package.	2
	Mention any two advantages of component diagram.	3
	What is an artifact?	2
		2
ο.	Enumerate the input and output of requirement analysis.	3
0.	What are the benefits of 'unified process' ? Explain briefly.	3
	What is a 'Business Model' ? Explain briefly.	2
10.	Name the phases of unified software development process and explain brie	the a
	PART-B (5-10-	ffly. 3 50 Marks)
4	a) Explain class diagram with an example.	n marks)
	 b) Listout common modeling techniques for a class diagram. 	5
		5
(Thi	is paper contains 2 pages) 1	

Code No.: 5290/M

12.	 a) Briefly explain 4 common mechanisms that apply consistently throughou language. 	
	b) Explain forward and reverse engineer for a class diagram.	4 6
13.	Explain about the following:	10
	a) Use case diagram.	
	b) Interaction diagram.	
	c) Collaboration diagram.	
14.	. a) Explain activity diagram with swimlanes and illustrate with an example	. 6
	b) Discuss patterns.	4
15.	. a) Trace the development of an analysis model and a design model.	5
	 b) Explain how class diagrams are generated using other relevant UN diagrams. 	IL 5
16.	. a) Illustrate conversion of requirements to use cases.	5
	b) Explain iterative and incremental process.	5
17.	Write short notes on :	10
	Systems and models.	
	 b) Data transfer between objects and databases. 	
	c) Component design.	

Code No. 9157 / M

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FACULTY OF INFORMATICS

B.E. 3/4 (I.T.) II - Semester (Main) Examination, May / June 2015

Subject : Object Oriented System Development

Time: 3 Hours Max. Marks: 75

Note: Answer all questions from Part - A and answer any five questions from Part-B.

PART - A (25 Marks)

1 2 3 4 5 6 7 8 9	Write the difference between Iteration and Incrementation. What are the different factors that influence the architecture of a system? Define use case model. What is its use? Define Testing. "UML is a language for construction". Justify Define the following Relationships with notations. (a) Dependency (b) Association (c) Realization Define Interface and package with notations. Define composite and history states of a state machine. Write the difference between sequence and collaboration diagrams.	(3) (2) (2) (2) (2) (3) (3) (3) (2)
10	Define component and deployment diagrams.	(3)
	PART – B (50 Marks)	
11	(a) Explain the life cycle of unified process.(b) Write steps for software development process.	(5) (5)
12	Explain requirements capture steps with an example.	(10)
13	List and briefly explain the elements of UML.	(10)
14	(a) Define a class and explain the concept of classes and their relationships with an example.(b) Write steps to implement forward engineering.	(5) (5)
15	Explain activity diagram with swim lanes and synchronization bars and illustrate with an example.	(10)
16	(a) Define use case and elements present in use case diagrams.(b) Explain different stereo types that apply to use cases.	(5) (5)
	Define the following: (a) Deployment collaboration (b) Patterns and frameworks (c) Systems and models	(3) (4) (3)

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FACULTY OF INFORMATICS

B.E. 3/4 (IT) II Semester (Suppl.) Examination, January 2013

Subject: Object Oriented System Development

	Subject: Object Officials	Max. Marks:	75
Time: 3 Hours	toos from Bart A. Anti	swer any five questions from Part B	,

Note: 1. Answer all questions from Part A. Answer any five questions from Part B.

PART - A (25 Marks)	101
	(2)
AALIGI IS STORY	(2)
Discuss about "Adornments".	(3)
Define the concept of "dependency relationship".	(2)
Define events and signals.	(3)
Explain Interaction diagram.	(2)
What are the benefits of 'unified process'? Explain.	(3)
Enumerate the input and output of requirement analysis.	(3)
and the process of th	(2)
a list the responsibilities of a component engineer in impression	(3)
List the response sequirements with respect to use cases.	
PART - B (50 Marks)	
Describe the basic structural modeling with help of (i) Classes ii) Relationships (iii) Common mechanisms (iv) Diagrams	(10)
Summarize the modeling techniques used for use case diagram and state char diagram. Draw use case diagram for library information system of a college and state your content of the case diagram.	t (5) ur (5)
assumptions.	(5)
 13.(a) Explain parts of transition in detail. (b) Explain the following terms in detail showing which one is most general and mespecific. (i) Aggregation (ii) Association (iii) Composition 	
14. Differentiate between	(3)
(a) Process and thread	(3) (4)
(b) Time and space(c) Sequential diagram and collaboration diagram	(**)
to detail	(5)
15.(a) Discuss about the phased development process in detail.(b) What is an artifact diagram and explain in what way deployment diagrams ar	e (5)
useful.	(4)
16.(a) What is software architecture and why we need it? (b) What do you mean by iterative and incremental software development? Can they be used to mitigate risk?	(6)
had notes on:	(3)
 (a) Core workflows (b) Roles of implementation phase and its core workflows. (c) Difference between system and model. 	(4) (3)