Total No. of Questions: 12]

SEAT No.: [Total No. of Pages: 2

P2811

[5154]-192

B.E. Information Technology OBJECT ORIENTED MODELING AND DESIGN (2008 Course) (Semester - I)

Time: 3 Hours] [Max. Marks: 100] Instructions to the candidates: Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 from Section I and Solve Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12 from Section II. 2) Answers to the two sections should be written in separate books. 3) Black figures to the right indicate full marks. Neat diagrams must be drawn wherever necessary. *5*) Assume suitable data, if necessary. **SECTION - I** With suitable UML diagram explain composition and aggregation. **Q1)** a) [8] b) What is an association end? What are the properties of association end? [6] c) State the importance of modeling in UML [4] OR Explain the concept of Generalization and Inheritance with suitable *Q2*) a) example. [8] Describe the software development life cycle of UML. [6] b) How to apply constraints in Class Diagram. c) [4] Describe the architectural meta model of UML. *Q3*) a) [8] Draw a class diagram for different dimensional figure on Window Screen. b) [8] OR Write a short note on UML versions. **Q4**) a)

[8]

b) Draw use case diagram for Student Admission System. [8]

Draw an object diagram for Hospital Management System. **Q5)** a)

[8]

Write a note on 4 + 1 view architecture. b)

[8]

Q 6)	a)	Write a note on Composite Structure Diagram.	[4]
	b)	Draw a package diagram for "Online Shopping System" show packages, package relationships.	ving [4]
	c)	Explain in detail CRC method.	[8]
		SECTION - II	
Q7)	a)	Illustrate with an example the relationship between use cases and sequ diagram.	ence [8]
	b)	Explain with a diagram the basic UML syntax for state diagram.	[6]
	c)	Compare Forward Engineering and Reverse Engineering.	[4]
		OR	
Q8)	a)	Explain signals, partitions, exceptions and regions of Interaction over diagram.	view [8]
	b)	Explain with a state diagram nested states for Telephone line.	[6]
	c)	Explain the concept of 'asynchronous message' with a suitable examin the context of sequence Diagram.	mple [4]
Q9)	a)	What do you mean by swim lane? Explain briefly the activity diag with swim lane for servicing aero plane.	gran [8]
	b)	Write a note on Component diagram.	[8]
		OR	
Q10) a)	Construct use case diagram for online air reservation system.	[8]
	b)	What is the purpose of an interaction Diagram? Explain with suit example the different types of interaction diagrams in UML 2.0.	table [8]
Q11,) a)	Draw the Activity diagram for issuing book from book library.	[8]
	b)	Explain Sequence diagram with process transition scenario. OR	[8]
Q12) a)	Write a note on Communication Diagram.	[4]
	b)	What is a node represent in deployment diagram explain with diagrar	n. [4]
	c)	Describe Branching and Forking in Activity diagram with suitable exar	nple [8]