MCA (Revised)

Term-End Examination

December, 2008

MCS-032 : OBJECT ORIENTED ANALYSIS AND DESIGN

Time: 3 hours Maximum Ma		ours Maximum Marks: 10	0	
Note: Question No. 1 is compulsory . Attempt any th questions from the rest.				
1.	(a)	Explain the concept of information hiding. How it is different from data encapsulation?	5	
	(b)	Compare and contrast DDBMS and ODBMS.	5	
	(c)	Give brief description of characteristics of object oriented modelling.	5	
	(d)	What are integrity constraints? Briefly discuss the type of integrity constraints.	5	
	(e)	How do we implement the concept of association in object oriented programming languages?	5	
	(f)	Compare object oriented analysis for software development with structured analysis.	5	

(g)	What is an activity diagram? Explain how activity diagram focuses on flows driven by internal processing with the help of suitable example.	5
(h)	Draw a class and instance diagram for looping statements in C-programming language.	5
(a)	Explain how classes can be designed.	7
(b)	Explain the various considerations while using dynamic model. Prepare a dynamic model for Airlines Reservation system.	8
(c)	What is meant by object interoperability? Where is it used and why?	5
(a)	With an example explain aggregation.	5
(b)	Explain the elements and notations of UML class diagram in detail.	7
(c)	Discuss test plans and test cases.	8
(a)	Give the guidelines for developing usability test and user satisfaction test.	8
(b)	Explain various components used in DFD by using suitable example such as billing	5

2.

3.

4.

- (c) With an example explain noun phrase 7 approach for classification.
- **5.** Write short notes on :

$$5 \times 4 = 20$$

- (a) Multiplicity and its types
- (b) State diagram
- (c) Persistance
- (d) OMT models.

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