BICSE-002

TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)	
Term-End Examination	
December, 2012	
002 : OBJECT ORIENTED DESIGN AND PROGRAMMING	
ours Maximum Marks : 70)
ttempt any seven questions. As <mark>sume</mark> suitable missing ata, if any.	3
What are the important features of a good good design ? List five of them.	5
Explain how classes can be designed ?	;
Define "Structure Chart".	5
"Data Dictionary is a part of Metadata". 5 Justify the statement.	5
Write benefits of the Object Model.	5
Differentiate between : (with the help of sexample)	;
(i) Association and Aggregation	
(ii) DBMS and RDBMS	
	FECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI) Term-End Examination December, 2012 002 : OBJECT ORIENTED DESIGN AND PROGRAMMING Durs Maximum Marks : 70 ttempt any seven questions. Assume suitable missing tta, if any. What are the important features of a good design ? List five of them. Explain how classes can be designed ? Define "Structure Chart". "Data Dictionary is a part of Metadata". Justify the statement. Write benefits of the Object Model. Differentiate between : (with the help of example) (i) (ii) DBMS and RDBMS

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- 4. (a) Define the following terms :
 - (i) Link
 - (ii) Integrity Constraints
 - (iii) Event
 - (iv) Abstract class
 - (v) Extensibility
 - (b) Classify each of the relationships as either a class, an instance of a class, inheritance, aggregation, association relationship or none exist.
 - (i) Student enrollment process
 - (ii) Semester performance of a student
 - (iii) Area Circle, Triangle
 - (iv) ABC University
 - (v) Book Copy
- 5. (a) How do you implement constraints ? 5 Explain.
 - (b) Write the policies for Detailed Design 5Dealing with temporal data.
- 6. (a) Draw the object model to describe online 5 gaming system.
 - (b) Using the concept of multiple inheritence, 5 create a class that represents a kind of plant in a forest using C++.

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7.	(a)	Compare the followings :	5
		(i) Strong versus Weak Typing	U
		(ii) Logical versus Physical Models	
	(b)	Write the characteristics of a Functional Model.	5
8.	(a)	Write the procedure to evaluate the quality of a Design Model.	5
	(b)	Explain - ONN constructs.	5
9.	(a)	List five object oriented programming languages with their specific features.	5
	(b)	Write Merits and De-merits (if any) of Dynamic Model.	5
10.	Write	e short notes on <i>any two</i> of the following : 5x2=	=10

- (a) Packages
- (b) Persistence
- (c) OMT Methodology

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