Diplete - CS (OLD SCHEME)

Student Bounts, com Code: DC12 Subject: OBJECT-ORIENTED PROGRAMMING THROUGH JAVA Max. Marks: 100 Time: 3 Hours

DECEMBER 2010

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after half an hour of the commencement of the examination.

Q.1	Choose the correct or the best alternative in the following:				
	a.	The character set used in Java is			
		(A) ASCII (C) ISCII	(B) EBCDIC(D) UNICODE		
	b.	b. By use of which keyword is it possible to prevent inheritance of a class.			
		(A) abstract(C) final	(B) private(D) static		
	c.	c. To be able to use classes in a package, the package has to be			
		(A) Extended(C) Implemented	(B) Imported(D) Inherited		
	d.	d. It is not possible to create an object of			
		(A) Final class(C) Public	(B) Abstract class(D) Friend class		
	e.	The java interpreter is			
		(A) javac (C) java	(B) javap(D) jdb		
	f.	f. The length of an array arr[] in java is determined by			
		(A) arr.size(C) length.arr	(B) size.arr(D) arr.length		

g. The type of inheritance not supported by java is (A) Hierarchical (B) Multiple (C) Hybrid (D) Multiple (C) Hybrid (D) Multilevel h. All the standard java classes included with java are stored in a package called (A) java.lang (B) java.util (C) java.io (D) java.applet i. Which of the following is the correct sequence of statements to compile a.java and then execute it. (A) C:\> javac a (B) C:\> javac a.java C:\> java a.java C:\> javac a.java c.java C:\> javac a.java c.java					Sil
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•		b.		•	ce. Briefly (6)
c. What is the importance of Byte code in Java.		c.	What is the importance of E	Byte code in Java.	(4)

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Q.5	a.	Write short notes on the following:- (i) Abstract classes (ii) Applets (iii) Data encapsulation (iv) Interfaces	(2 × 4)	AKY.COM
	b.	Write a program in Java to print the sum of digits of a given number.	(8)	1
Q. 6	a.	Define the following:- (i) class variables (ii) instance variables (iii) local variables (iv) static variables	(6)	•
	b.	Write a program in Java to print the sum of all odd numbers from 1 to	o 100 (6)	
	c.	Briefly explain labeled break and continue statements in Java	(4)	
Q.7	a.	Write a program in Java to copy the contents of one file to another.	(8)	
	b.	Briefly explain the various access specifiers available in java	(8)	
Q.8	a.	Create a class named Room with suitable parameters and also vemethod to compute the area of the Room in the class.	write a (8)	
	b.	Briefly discuss the characteristics of Object Oriented Programming.	(8)	
Q.9		Differentiate between the following:-	(4×4)	
		(i) Class and Interface(ii) Static Method and Final Method		

(iii) (iv) Method Overloading and Method Overriding
Late Binding & Early Binding