BCA 3rd SEMESTER EXAM., 2014 JAVA PROGRAMMING CODE- 303303

Time:	3 hours		I	Full Marks: 60		
Instru	ctions:					
i. ii. iii. iv.	The Marks are indicated in the There are SEVEN questions in Attempts FIVE question in all Question Nos. 1 and 2 are con	n this paper. l.	1.			
1. Cl	noose the correct one / Answe	r question of the fol	lowing (any six).	2*6=12		
	(a) A methods in an abstract	class must be declar	red abstract.			
	(I) True	(II) Fal	se			
(b) What is the value of Y in a given program segment?						
	Int a=5; int b=6;	Y= b++ + ++a;	System.out.println(Y);			
	(c) If m and n are int type var	riables, what will be	the result of the expressi	on m%n,		
	When $m=-14$ and $n=-3$	3?				
	(I) 4		(II) 2			
	(III) -2		(IV) None of the above			
	(d) Which of the following st	Which of the following statement is valid array declaration?				
	(I) int x ();		(II) float y[];			
	(III) double [] z;		(IV) t int[];			
(e) The methods wait () and notify () are defined in						
	(I) Java. long.string		(II) Java. long.Runnabe			
	(III) Java. long.object		(IV) Java. long.Thread			
	(V) Java. long.Thread	Group				
	(f) Given the following code	:				
	Class ABC {int x=10;	Class ABC {int x=10; }				
	Class PQR extends ABC { int x=20; }					
	ABC b=new ABC ();					

PQR d=new PQR ();

ABC bd= new PQR ();

The statement -

i System.out.println(b.x+" "+d.x+" "+bd.x);

Will produce the output					
(I) 10 20 20	(II) 10 20 10				
(III) 20 10 20	(IV) 20 20 10				
(g) The set BackGround () method is part of the class					
(I) Graphics	(II) Applet				
(III) Component	(IV) Container	(V) Object			
(h) When we implement the runnable interface, we must define the method					
(I) start ()	(II) init ()				
(III) run ()	(IV) runnable ()				
(V) resume ()	(VI) main ()				
(i) Which of the following keyword is used to control access to a member?					
(I) default	(II) abstract				
(III) protected	(IV) interface	(V) public			
(j) Which of the following will produce a value of 10, if x=9.7?					
(I) floor (x)	(II) abs(x)				
(III) rint (x)	(IV) round(x)	(V) ceil ()			
2. Answer any three of the following:		4*3=12			
(a) How is Java strongly associated with	the internet?				
(b) What is empty statement? Explain its usefulness?					
(c) What is constructor? What are its special properties?					
(d) What is vector? How is it different from an array?					
(e) How do we tell Java that we want to u	se a particular package in a	file?			
Answer any three of the following:		12*3=36			
3. What is the significance of super keyword in	n an inheritance? Explain wi	th an example how			
Subclass class can superclass constructor and how super keyword can access superclass					

member.

- **4.** What is static import? How is it useful? Using package access and importing packages Technique, write a program to find the largest among three numbers.
- **5.** Describe the compete life cycle of a thread. Write a program to illustrate "implementing the runnable Interface"
- **6.** Explain how to rethrow an exception. Write a program to create a try block that is likely to generate three types of exception and then incorporate necessary catch blocks to catch and handle the appropriately.
- **7.** Write down the methods defined by input stream. Write a java program that demonstrates random access I/O which writes six double to a file and then reads them back in non-sequential order.