Seat No.:	

AA-101

April-2019

BCA, Sem.-IV

CC-210 : Core Java

Time: 2:30 Hours] [Max					[Max. Marks: 70			
1.	(A)	Write the following:						
		(i)	Explain the principles of Object-Oriented Programming Languages.					
		(ii)	i) Write a short note on:					
			(A)	Types of Operators			4	
			(B)	Method Overloadin	g		3	
					OR			
		(i)	Whi	ch Java features repla	ce C++ in mos	st of the application of	development? 7	
		(ii)	Writ	e a short note on:				
			(A)	Importance of JVM			4	
			(B)	Constructor and its	types.		3	
	(B)	Do as Directed. (any four out of six)						
		(i)	Whi	ch of the following is	not an object-	oriented language ?		
			(A)	Simula	(B)	Java		
			(C)	C	(D)	C++		
		(ii) Which command is used to interpret a Java program file?						
			(A)	java	(B)	javac		
			(C)	javap	(D)	javadoc		
		(iii) Which property from the following is correct for constructors?						
			(A)	can not be inherited				
			(B)	an <init> method in</init>	plicitly create	d		
			(C)	Default is inbulit				
			(D)	All of the above				
		(iv) Which of these statement is valid?						
			(A)	short $s1 = 143$;	(B)	int j1 = '3';		
			(C)	double $dl = 6.3$;	(D)	float $fl = 4.3$;		
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		(v)	10 p	erform bitwise Oking,	ope	erator is used in Java.		
			(A)	&	(B)	!		
			(C)	~	(D)			
		(vi)	Whi	ch of the following is true for	class 1	product?		
			(A)	new product()				
			(B)	new product(product s)				
			(C)	new product(int pno, String	pname	e)		
			(D)	All of the above				
2. (A)	(A)	Write the following:						
		(i)	"Multiple values can be passed to and returned from method using array." Explain with suitable examples.					
		(ii)	Writ	te a short note on:				
			(A)	Interface extending			4	
			(B)	Method Overriding			3	
				OR				
		(i)	Wha	at is inheritance? What are its	types	?	7	
		(ii)	Writ	te a short note on:				
			(A)	Difference between Abstrac	et class	and Interface	4	
			(B)	Command-line arguments			3	
	(B)	Do a	as Directed. (any four out of six)					
		(i)	Whi	ch statement from the follow	ing is c	orrect?		
				int m[][] = new int [5][5]				
			(B)	int [] m [] = new int [5] [5];			
			(C)	int [][] = new int [5, 5];				
			(D)	None of the above				
		(ii)		variables and methods are	allowe	d in static method.		
			(A)	only static	(B)	only non-static		
			(C)	static and non-static both	(D)	static, non-static, final, abstract		
		(iii)	Whi class		d allov	vs deriving members from another		
			(A)	extends	(B)	implements		
			(C)	derives	(D)	inherits		

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		(iv)	Child class method hides execution of parent class method is an example of						
			(A)	overloading	(B)	loadingover			
			(C)	overbiding	(D)	overriding			
	(v)	class	does not permit parent class members to be used further into child classes.						
			(A)	super	(B)	this			
			(C)	final	(D)	Final			
		(vi)		inheritance for classes is	not ava	ilable in Java.			
			(A)	simple	(B)	multiple			
			(C)	unique	(D)	hybrid			
3. (A)	(A)	Write	e the f	following:					
		(i)	Draw Access Protection chart. Explain its use inside and outside package with example.						
		(ii)	Wha	t is multi-catch in exception	handlir	ng ? Explain with example.	7		
				OR					
		(i)	What is wrapper class? Explain any two with suitable examples.						
		(ii)	Explain user defined exception with example. 7						
	(B)	Do as Directed. (any three out of five)							
		(i)		must be included at the to	op of ev	very java source file.			
			(A)	import	(B)	impact			
			(C)	inherit	(D)	package			
		(ii)	Wha	t is the result of compiling th	e follo	wing code: package pkgl .pkg2;			
			(A)	compile time error	(B)	runtime error			
			(C)	compile but no execution	(D)	compile and execution			
		(iii)		is the immediate parent c	lass of	all exceptions in Java.			
			(A)	Exception	(B)	Throwable			
			(C)	Throw	(D)	Catch			
		(iv)	${\text{throws.}}$ is always specified after method that does not catch the exception it						
			(A)	throw	(B)	throws			
			(C)	finally	(D)	new			
		(v)	Whi	ch of the following statement	will n	ot generate exception?			
			(A)	z = x/0;	(B)	int a[] = new int[5];a[5]=5;			
			(C)	$a=10; try{ a=20;}$	(D)	None of the above			

(A)	Writ	Write the following:									
	(i)	Which are the two ways of creating threads? Explain with examples.									
	(ii)	List methods of Graphics class in applet and explain any two with an example.									
				OR							
	(i)	How Java provides multithreading concept to reduce overall execution time?									
	(ii)	(ii) Draw Applet Life cycle and explain with suitable example.									
(B)	Do a	Do as Directed. (any three out of five)									
	(i)	Whi	ch package contains	all methods and	d variables of multithreading?						
		(A)	java.thread	(B)	java.lang						
		(C)	java.Object	(D)	Java-package						
	(ii)	_ state.									
		(A)	Ready	(B)	Running						
		(C)	New	(D)	Run						
	(iii)	(iii) has same values for starting and ending co-ordinates.									
		(A)	Polygon	(B)	Polyline						
		(C)	Polyrectangle	(D)	Ploycircle						
	(iv)	(iv) is the method of an applet.									
		(A)	init()	(B)	display()						
		(C)	execute()	(D)	None of the above						
	(v)		class has method	ds to draw graph	ical symbols on the applet.						
		(A)	Drawing	(B)	Graph						
		(C)	Graphics	(D)	Image						

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