Seat No. : \_\_\_\_\_

## ZC-122 April-2014

# B.C.A., Sem.-IV CC-210 CORE JAVA

### Time : 3 Hours]

[Max. Marks : 70

1.	(A)	Explain the following terms :			
		(1)	Bytecode		
		(2)	Type casting		
		(3)	Static Keyword		
		(4)	Polymorphism		
			OR		
		Exp	lain the following terms :		
		(1)	Wrapper class		
		(2)	Constant		
		(3)	Finalize Function		
		(4)	Switch Keyword		
	(B)	Exp	plain the characteristics of Java language.	6	
			OR		
		Exp	lain Java architecture with figure.		
2.	(A)	Ans	swer the following questions :	8	
		(1)	List Methods of graphical dialog boxes of JOptionPane.		
		(2)	Differentiate between Method vs. Constructor.		
		(3)	Differentiate between Applet vs. Application.		
		(4)	How StringBuffer is better than String ?		
		Ans			
		(1)	Explain Logical operators.		
		(2)	Differentiate between equals vs. $(= =)$ .		
		(3)	Differentiate between Abstract vs. Final.		
		(4)	Explain Java comments.		
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(B) Write short note on Looping statements with examples.

#### OR

Write short note on different types of Java arrays with examples.

- 3. (A) Answer the following questions :
  - (1) Explain different states of Thread life cycle with figure.
  - (2) What is package ? What are their types ? Why we need package ? Explain with example.

### OR

Answer the following questions :

- (1) What is interface ? What are its characteristics ? Why we need it ? Give example.
- (2) What is exception ? What are their types ? Explain exception handling mechanism with example.
- (B) Describe following functions :
  - (1) drawRect()
  - (2) showStatus()
  - (3) fillPolygon()

#### OR

Describe following functions :

- (1) drawString()
- (2) join()
- (3) sleep()
- 4. (A) Do as directed :
  - (1) Explain Thread priorities.
  - (2) Give example of creating owned checked exception
  - (3) Define keywords : (1) Try (2) Catch
  - (4) Applet class hierarchy

#### OR

Do as directed :

- (1) List any five attributes of <APPLET> tag.
- (2) Identify functions: getDocumentBase() and getCodeBase().
- (3) ArithmeticException class hierarchy
- (4) What do you mean by abstract functions ?

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- (B) Answer the following questions :
  - What is inheritance ? What is "extends" keyword does ? List advantages of (1) using Inheritance.
  - What are the access modifiers in Java language ? What do you mean by (2) default modifier ?

OR

Answer the following questions :

- (1) What is interface ? What is "implements" keyword does ? List advantages of using Interface.
- Explain different functions of Applet life cycle. (2)

#### 5. Fill in the blanks :

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				boolean(6)		
	(b)	boolean b[6]	(d)	boolean [] b = new		
		boolean[6]		boolean[6]		
	(a)	boolean b[] = new	(c)	boolean b = new		
(8)	is a valid declaration of six boolean elements array					
	(b)	Size	(d)	Elements		
	(a)	Capacity	(c)	Length		
(7)	To count elements in array, is used.					
	(b)	To Parent class	(d)	To Object class		
. /	(a)	To Local class	(c)			
(6)	The super keyword references					
	(b)	parseInteger()	(d)	1		
(-)	(a)	tolnteger()		parseInt()		
(5)	To convert "977" into integer value, function is used.					
	(u) (b)	79	(d)	12		
(-)	(a)	94	(c)			
(4)	Int $Z = 97 >> 3$ . The value of Z is					
	(a) (b)	float		All of above		
(3)	The value 983.47 can be held by a variable of type(a) double(c) int					
( <b>2</b> )	(b) The	Constructor	(d)	Bytecode		
	(a)	Method	(c)	Object		
(2)	An instance of class is a(n)					
	(b)	javac	(d)	java		
	(a)	exec	(c)	appletviewer		
(1)	The command to execute a compiled Java application is					

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(9)	block handles the thrown exception.						
	(a)	Finally	(c)	Throw			
	(b)	Catch	(d)	Throws			
(10) The code within a finally block executes when the try block							
	(a)	(a) Identifies one or more exception					
	(b)	Does not identify any exception					
	(c)	Identify any runtime exceptions					
	(d)	All of above					
(11)	Abs	tract class does not have					
	(a)	Instantiate Object	(c)	Child class			
	(b)	Parent class	(d)	Constructors			
(12) A Thread is created by implementing interface.							
	(a)	Runnable	(c)	Throwable			
	(b)	Thread	(d)	ThreadRunner			
(13)	To draw rectangle using Graphics in Applet, package is required						
	(a)	Java.net	(c)	Java.util			
	(b)	Java.applet	(d)	Java.awt			
(14)	Тос	Γο draw circle in applet, function is used.					
	(a)	drawOval()	(c)	drawCircle()			
	(b)	drawRoundRectangle()	(d)	drawEclipse()			