Seat No. : _____

XA-102

T.Y. B.C.A. March-2013

BCA 303 : Internet Technologies & Programming

Tim	[Max. Marks	/Iax. Marks : 70			
Instructions :			 (1) (2) (3) 	All questions are compulsory. Figures in right indicate marks. Take care of case sensitivity.	
			(3)	Take care of case sensitivity.	
1.	(a)	Answer following (any two) :		8	
		(i)	Exp	lain various features of Java Language.	
		(ii)	Exp	lain 6 numeric data types of Java.	
		(iii)	Dra	w the figure only of Java architecture and explain Java virtual machine.	
	(b)	Ans	wer fo	ollowing (any three) :	6
		(i)	Exp	lain type casting in Java with example.	
		(ii)	Wha	at will be value of y after execution of following code?	
				int a=25,b=60,c=5;	
				double x=5.5,y;	
				y=a+b/(2*c)-x;	
		(iii)		at are the command line arguments ? How they are passed ? Explain with mple.	th
		(iv)	Give	e three keywords of Java that can be used in loops.	
2.	(a)	Ans	wer fo	ollowing (any two) :	8
		(i)	Wri	te a short note on Applet Life Cycle.	
		(ii)	Exp	lain parameter passing in an applet.	
		(iii)	Exp	lain Java's model for handling events.	
	(b)	Ans	wer fo	ollowing (any two) :	6
		(i)	Exp	lain object destruction process in Java.	
		(ii)	Exp	lain the use of static block with example.	
		(iii)	Wri 10.	te a Java program to generate 10 random integer numbers between 1 ar	ıd
XA-	102			1 P.7	Г.О.

3.	(a)	Answer following (any two) :8(i) How interface is different from an abstract class ?8(ii) List some API packages and their use in Java.8(iii) Explain various access modifiers and their visibility.8	í
	(b)	 Answer following (any two): 6 (i) When throws keyword is used in exception handling ? (ii) Give three exception class names. Also state when that exceptions are thrown. (iii) Explain the use of Finally Block. 	.)
4.	(a)	 Answer following (any two): 8 (i) Explain use of priorities in multithreading. (ii) What is multithreading ? Explain synchronization in controlling threads. (iii) Write a short note on Thread Life Cycle. 	í
	(b)	 Answer following (any two): 6 (i) Explain applet tag and its attributes. (ii) Explain parameters of drawLine() and drawPolygon() methods. (iii) How thread can be created using an interface ? When threads are created using an interface ? 	
5.	(a)	 Answer following (any two): 8 (i) Explain the use of BufferedReader class with example. (ii) Write a Java program to write 10 integer numbers on file and later display them. (iii) Write a short note on File Class. 	,
	(b)	 Answer following (any two): 6 (i) Write a Java program to copy a file. (ii) Explain variable size two dimensional array using example. (iii) What are the wrapper classes ? Explain any one wrapper class in detail. 	