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P.T.O.

AK-106

April-2023

BCA., Sem.-IV

CC-210: Core JAVA

Time	0 Hours]	7 0	
1.	(A)	Differentiate between Java and C++.	7
	(B)	What are classes and objects in Java? Explain the process of garbage collection in Java.	7
		OR	
	(A)	List and explain features of Java.	7
	(B)	What is a method? Why methods are used in Java programing? Explain the concept of method giving suitable example.	7
2.	(A)	What is an interface? Differentiate between interface and abstract class.	7
	(B)	Define array. How to declare array in Java? Explain the different types of arrays supported in Java.	7
		OR	
	(A)	What are static methods? Can the static methods be overridden? Why is the main method static in Java?	7
	(B)	What is inheritance? Explain the use of 'super' keyword giving suitable example.	7
3.	(A)	What is a package? How are they created and used? Discuss: Java.lang package.	7
	(B)	What is exception? Explain exception handling mechanism.	7
		OR	
	(A)	What is wrapper class? Explain any two wrapper classes.	7
	(B)	List methods of String class. Explain any three methods in detail.	7
4.	(A)	What is a Thread? Explain different states of Thread.	7
	(B)	What is Thread priority? Explain the concept giving suitable example.	7
		OR	•
	(A)	Discuss: Life cycle of an applet.	7
	(B)	Discuss: Applet tag in detail.	7
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5. Attempt any 7: Which method is used to find out that a thread is still running or not? (i) What is the base class in Java from which all classes are derived? (ii) Which keyword is used to prevent inheritance? (iii) 'this' keyword is used to refer to the current object. [True/False] (iv) Protected access specification allows access to all classes in the same package (v) and sub-classes in any package. [True/False] Interfaces cannot be extended. [True/False] (vi) (vii) Which of these cannot be used as variable name in Java? (a) keywords (b) identifiers (c) both keywords and identifiers (d) None of the above (viii) What will be the output of the following code? class test { public static void main(String args[]) int g = 3; System.out.print(++g * 8); 32 (b) 33 (a) 25 24 (c) Which method is used to perform some action when the object is to be destroyed? (ix) delete() (b) (a) main() finalize() None of the above (d) (c) method returns the current capacity of the storage available for (x) characters in the buffer. (b) (a) charAt() length() (d) capacity() append() (c)

is the base class of all Exception classes. (xi) Throwable

RuntimeException (b)

(a) **IOException**

None of the above (d)

method is called each time an AWT-based applet's output must be (xii) redrawn.

repaint() (a)

(b) paint()

update() (c)

(d) All of the above