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AK-106

April-2023

BCA., Sem.-IV

CC-210: Core JAVA

Time	: 2:3	0 Hours] [Max. Marks:	70
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 2 Differentiate Land	_
۷.	(B)	What is an interface? Differentiate between interface and abstract class.	7
	(D)	Define array. How to declare array in Java? Explain the different types of arrays supported in Java.	7
		OR	6.7
·	(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. OR	7
	(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
AK-	106	1 P.T.O	o.

```
5. Attempt any 7:
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- (i) Which method is used to find out that a thread is still running or not?
- (ii) What is the base class in Java from which all classes are derived?
- (iii) Which keyword is used to prevent inheritance?
- (iv) 'this' keyword is used to refer to the current object. [True/False]
- (v) Protected access specification allows access to all classes in the same package and sub-classes in any package. [True/False]
- (vi) Interfaces cannot be extended. [True/False]
- (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);

}
(a) 32

(b) 33

(c) 24

(d) 25

- (ix) Which method is used to perform some action when the object is to be destroyed?
 - (a) delete()

(b) main()

(c) finalize()

- (d) None of the above
- (x) method returns the current capacity of the storage available for characters in the buffer.
 - (a) charAt()

(b) length()

(c) append()

- (d) capacity()
- (xi) is the base class of all Exception classes.
 - (a) Throwable

- (b) RuntimeException
- (c) IOException
- (d) None of the above
- (xii) ____ method is called each time an AWT-based applet's output must be redrawn.
 - (a) repaint()

(b) paint()

(c) update()

(d) All of the above

AK-106