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**2415**

# Bachelor of Computer Application
# BCA (Third Year) Examination, 2020
# PROGRAMMING WITH JAVA
## Paper V (BCA-305)

**Time Allowed : Three Hours**

**Maximum Marks : 75**

*Attempt **five** questions in all, selecting **one** question from each Unit. **All** questions carry equal marks.*

*प्रत्येक इकाई में से **एक** प्रश्न का चयन करते हुए, कुल **पाँच** प्रश्नों के उत्तर दीजिए। **सभी** प्रश्नों के अंक समान हैं।*

### UNIT-I

1. (a) How Java differs from C++ ? Discuss different paradigms of programming languages.

   (b) Discuss principles of Java language with suitable examples.



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2. (a) Discuss control and branching statements with their syntax.

   (b) Discuss data types in Java.

### UNIT-II

3. Write a Java program to show the following concepts :

   (i) Inheritance

   (ii) Polymorphism

   (iii) Overloading

   (iv) Constructor

   (v) Subclass.

4. Explain the following terms with suitable examples :

   (i) Garbage collection

   (ii) Type wrappers

   (iii) Protected members

   (iv) Final methods

   (v) Nested classes.



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## UNIT-III

5. (*a*) Write a Java program to print reverse of a given string.

   (*b*) Write a Java program to display frequencies of alphabets in a given string.

6. (*a*) Write a Java program to sort an array of strings in ascending order.

   (*b*) Write syntax for the following :

   (*i*) String comparison

   (*ii*) Changing the case of characters.

## UNIT-IV

7. What is the Threading ? Discuss the Java thread model.

8. What is the exception ? Discuss the fundamentals of handing exception in Java.



## UNIT-V

9. What is the AWT ? Discuss various features of AWT with suitable examples.

10. What is Applet ? Discuss the fundamentals of Applet with suitable examples.

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