

(i) Printed Pages : 2

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(ii) Questions : 9

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Exam. Code : 

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**Bachelor of Computer Applications 5<sup>th</sup> Semester**  
**(2122)**

**JAVA PROGRAMMING**

**Paper : BCA-16-503**

**Time Allowed : Three Hours]**

**[Maximum Marks : 65**

**Note :—** Attempt any **ONE** question each from Units I–IV. Unit-V is compulsory.

**UNIT—I**

1. (a) Explain the use of constructors in Java with a program. 7  
(b) Explain the concept of dynamic method dispatch and use of Final keyword. 6
2. Explain various types of inheritance supported in Java with suitable examples. 13

**UNIT—II**

3. What are interfaces ? Write a program in Java to illustrate the implementation of multiple inheritances through interfaces. 13
4. (a) Define packages. Broadly explain the utilization of packages in Java with suitable examples. 9  
(b) What is String Buffer class ? Why is it used ? 4

### UNIT—III

5. (a) What are the various ways to create thread in Java ? Explain with Java program. 9
- (b) Discuss the Java Thread model. 4
6. What is an Applet ? What are different types of Applets ? Write a Program to show parameters passing to applets. 13

### UNIT—IV

7. What is GUI ? How can you add text box used for accepting passwords ? What is the difference between checkbox and radio button ? Explain with Java program. 13
8. Broadly explain the concept of JDBC with suitable examples. 13

### UNIT—V

9. (a) What are the user defined exceptions ? 2
- (b) What is the use of init ( ) method in Applet ? 2
- (c) How do applets differ from application programs ? 2
- (d) What is the difference between finally and final ? 2
- (e) What is deadlock in multithreading ? 2
- (f) What is the functionality of static class ? 3