

(i) Printed Pages : 2

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(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**Bachelor of Computer Applications 5th 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