(i) Printed Pages: 3   Roll No. ....

(ii) Questions   : 9   **Sub. Code** : | 0 | 9 | 4 | 9 |

                        Exam. Code : | 0 | 0 | 3 | 1 |

Bachelor of Computer Applications 5th Semester

(1129)

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) Write any four characteristics of Java Programming language.   4

    (b) What is the use of constructors ? Explain the concept of constructors in Java with a program.   9

2. (a) What is method overloading ? Write a program in Java to illustrate the concept of method overloading.   9

    (b) Explain the concept of dynamic method dispatch.   4

UNIT—II

3. (a) Write a program in Java to illustrate the implementation of multiple inheritances through interfaces. 9

    (b) Explain any two functions of String class. 4

4. (a) What are packages ? How do you create and use them in Java ? 9

    (b) How one dimensional and two dimensional arrays are declared in Java ? 4

UNIT—III

5. (a) What type of errors would you get at run time ? How Exceptions can be handled in Java ? Explain with suitable examples. 9

    (b) How and when do you create a thread using Runnable interface ? 4

6. What are the different types of Applets ? With the help of diagram discuss the different stages in the lifecycle of an applet. 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. What is the purpose of JDBC driver ? Write the steps to insert, update and delete record in database using JDBC. 13

UNIT—V

9. (a) What is access protection in packages ? 2

(b) What is the importance of paint ( ) method in Applet ?

2

(c) Why can't we use a keyword name as variable name ?

2

(d) What is the difference between finally and final ? 2

(e) What are the applications of OOP technology ? 2

(f) In what ways does a Switch statement differ from if statement ? 3