

(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 5th Semester
(2123)

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. What are various types of Inheritance in Java ? Write a program in Java to illustrate the concept of Multilevel Inheritance. 13
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 and Java virtual machine. 4

UNIT-II

3. (a) What is Interface ? How multiple inheritances can be achieved using Interface ? Explain with suitable example. 9
(b) Explain any two functions of String class. 4

4. (a) What are the types of packages ? Discuss the access protection in package with a program. 9
- (b) Write short note on two-dimensional Arrays and Streams. 4

UNIT-III

5. (a) What are the different techniques for creating threads ? Which one is better ? 9
- (b) What are the features of Applets ? 4
6. How Exceptions can be handled in Java ? Using an example explain how try-catch block handles exceptions. 13

UNIT-IV

7. Discuss the various layout managers supported by Java. What is the benefit of using them ? 13
8. Broadly explain the concept of JDBC with suitable examples. 13

UNIT-V

9. (a) Why is main method declared static ? 2
- (b) When should one make a class final ? 2
- (c) How do applets differ from application programs ? 2
- (d) What is the difference between finally and final ? 2
- (e) What is the purpose of super keyword ? 2
- (f) What is the functionality of static class ? 3