

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	7	9	4	9
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Exam. Code :

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**Bachelor of Computer Applications 5th Semester
(2125)**

JAVA PROGRAMMING

Paper : BCA-16-503

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt **FIVE** questions in all, by selecting **ONE** question each from Units I, II, III and IV. Unit-V (Question No. 9) is compulsory.

UNIT-I

1. (a) Discuss the features of Java programming Language. 7
(b) Explain different types of looping statements available in Java. 6
2. (a) What are constructors? Explain the concept of constructor overloading with an example. 7
(b) What is Dynamic Method Dispatch? How is it useful in case of inheritance? 6

UNIT-II

3. (a) What are the differences between String and StringBuffer class? Explain any two methods of String class. 7
(b) What are packages? Explain the steps of creating a user-defined package. 6

4. What are interfaces? Explain how multiple inheritance is implemented in Java using interfaces. 13

UNIT-III

5. (a) What are exceptions? Explain how are exceptions handled in Java. 7
(b) What are applets? Explain in detail the life cycle of an applet. 6
6. What is multithreading? Explain the different ways of creating threads in Java with the help of examples. 13

UNIT-IV

7. What are Layout managers? Explain different AWT layout managers. 13
8. (a) What is event handling? Explain Delegation Event Model of Java with the help of an example. 7
(b) What is JDBC? Explain the steps of connecting to a database using JDBC. 6

UNIT-V

(Compulsory Question)

9. (a) What is bytecode? 2
(b) What is use of Scanner class in Java? 2
(c) What is an abstract class? 2
(d) What is garbage collection? 2
(e) What do you mean by Streams? 2
(f) Explain the uses of final keyword. 3