

2021
Bachelor of Computer Application
Fifth Semester
BCA-16-503: Java Programming

Time allowed: 3 Hours

Max. Marks: 65

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit- I-IV

x-x-x

UNIT – I

- I. a) Write any six characteristics of Java programming language?
b) Explain various types of inheritance supported in Java with suitable examples. (6,7)
- II. a) Discuss the various flow control statements in Java programming.
b) Explain the use of Final keyword. (9,4)

UNIT – II

- III. a) How to implement interfaces in Java? Explain with suitable example.
b) Discuss any two functions of String Buffer class. (9,4)
- IV. a) What are the types of packages? Discuss the access protection in package with a program.
b) Write short notes on one-dimensional Arrays and Streams. (9,4)

UNIT – III

- V. a) What are the types of Exception? How Exceptions can be handled in Java? Explain with suitable examples.
b) Explain the Java thread model. (9,4)
- VI. What are the types of applet? Discuss the applet lifecycle and give suitable example. (13)

UNIT – IV

- VII. What is Layout manager in Java? Explain the Flow Layout, Border Layout, and Grid Layout (13)
- VIII. What is the use of JDBC? Write the steps to insert and delete record in database using JDBC. (13)

P.T.O.

(2)

UNIT – V

IX. Attempt the following:-

- a) In what ways does a Switch statement differ from if statement? (2)
- b) What are the user defined exceptions? (2)
- c) Name the various data types used in Java. (2)
- d) What is a container in a GUI? (2)
- e) What is the importance of paint() method in Applet? (2)
- f) What is deadlock in multithreading? (3)

x-x-x