



V Semester B.C.A. Degree Examination, Nov./Dec. 2016  
(CBCS) (2016-17 and Onwards)  
COMPUTER SCIENCE  
BCA 504 : Java Programming

Time : 3 Hours

Max. Marks : 70

**Instruction:** Answer all Sections.

## SECTION – A

- I. Answer **any ten** questions : (10×2=20)
- 1) Why Java is simple ? Mention any two reasons.
  - 2) What are string literals ?
  - 3) Give the general form of 'Switch' statement.
  - 4) What is instance variable ? Give an example.
  - 5) Write a few points about 'default constructor'.
  - 6) What does 'static' keyword do in a class ?
  - 7) What is Java API ?
  - 8) What is Exception handling ?
  - 9) What is the need for 'applet viewer' ?
  - 10) What is error ? Compare with exception.
  - 11) What is the purpose of 'init()' method in Applet ?
  - 12) What is the use of canvas in AWT ?

## SECTION – B

- II. Answer **any five** questions : (5×10=50)
- 13) a) Explain the line "public static void main (string args[])". 4  
b) Explain the History and evolution of Java. 6
  - 14) a) How to create objects ? What happens when you create objects ? 4  
b) Demonstrate 'this' keyword with Simple Java Program. 6

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| 15) a) Differentiate component and container class.                           | 4 |
| b) Give the general form of interface with one example.                       | 6 |
| 16) a) Explain bitwise and logical operators with examples.                   | 4 |
| b) Illustrate array declaration and accessing data elements using an example. | 6 |
| 17) a) Differentiate constructors and methods.                                | 4 |
| b) Give the steps to create and use a Java package with an example.           | 6 |
| 18) a) Explain the life cycle of a Thread.                                    | 4 |
| b) Explain the steps of executing an Applet using a simple code.              | 6 |
| 19) a) Explain try .... catch with an example.                                | 4 |
| b) Write a short note on Graphics Class.                                      | 6 |
| 20) a) Write a program to sort a list of elements in ascending order.         | 4 |
| b) Give the classification on "java.io.IOException". Explain IOException.     | 6 |

## SECTION - B

(5x10=50)

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6

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