

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 ?

**LIBRARY**  
Sriana College of Arts, Science  
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## 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
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