(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[])”.
   b) Explain the History and evolution of Java.
14) a) How to create objects? What happens when you create objects?
   b) Demonstrate ‘this’ keyword with Simple Java Program.
15) a) Differentiate component and container class. 
   b) Give the general form of interface with one example.

16) a) Explain bitwise and logical operators with examples. 
   b) Illustrate array declaration and accessing data elements using an example.

17) a) Differentiate constructors and methods. 
   b) Give the steps to create and use a Java package with an example.

18) a) Explain the life cycle of a Thread. 
   b) Explain the steps of executing an Applet using a simple code.

19) a) Explain try .... catch with an example. 
   b) Write a short note on Graphics Class.

20) a) Write a program to sort a list of elements in ascending order. 
   b) Give the classification on “java.io.IOException”. Explain IOException.