V Semester B.C.A. Degree Examination, March 2023
(Y2K14) (CBCS) (F + R)
COMPUTER SCIENCE
BCA 504 : Java Programming

Time : 3 Hours

Max. Marks : 70

Instruction : *Answer all Sections.*

SECTION – A

I. Answer **any ten** questions. **Each** question carries **2** marks. (10×2=20)

1) What are the default values of Boolean and Char primitives data types in Java ?

2) Give the general form of switch statement.

3) What is the difference between default constructor and parametrized constructor ?

4) What is the difference between static variables and instance variables ?

5) What is the use of super keyword ?

6) Define JVM.

7) What is the difference between class and interface ?

8) Mention any four thread methods.

9) What is checked exception ? Give an example.

10) Mention the attributes of PARAM tag.

11) What is the use of Java I/O classes ?

12) Briefly mention the broad classification of Java stream classes.

SECTION – B

II. Answer **any five** questions. (5×10=50)

13) a) Explain the features of Java. 7

   b) Explain the difference between Java and C++. 3

14) a) Mention any five Mathematical functions of math class with examples. 5

   b) Explain constructor and its types with example. 5

15) a) Demonstrate 'this' keyword with simple Java program. 5

   b) Define inheritance. Explain any two types of inheritance with example. 5

16) a) Write a program to sort the given numbers with exception handling concept. 5

   b) Explain the process of creating user defined package with an example. 5

17) a) Explain the life cycle of a thread. 5

   b) Write the steps involved in creating thread by implementing runnable interface. 5

18) a) Explain user defined exceptions in Java. 5

   b) Explain life cycle of an applet with a neat diagram. 5

19) a) Explain any five methods of graphics class with an example for each. 5

   b) Write a program to implement keyboard events. 5

20) a) Explain the use of FileInputStream class and OutputStream class. 5

   b) Explain any five string methods with syntax and example. 5