QP – 421

V Semester B.C.A. Examination, March/April 2022
(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) Why is Java called as platform independent language ?

2) Write any two rules of an identifier.

3) What is conditional operator ? Give an example.

4) Write the general syntax of defining class.

5) How to declare one dimensional array ? Give an example.

6) What is the difference between class and interface ?

7) What is a package ?

8) Mention any four thread methods.

9) How does Java handle the exceptions ?

10) What is the purpose of init( ) method in applet ?

11) List out any four graphics class methods.

12) How are streams classified in Java ?

SECTION – B

II. Answer **any five** questions. **Each** question carries **10** marks.   **(5×10=50)**

13) a) Explain the Java program structure.   5

b) Write the differences between Java and C++.   5

14) a) Explain the operators in Java.   5

b) What is constructor overloading ? Write a program to demonstrate the constructor overloading.   5

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15) a) Explain any two types of inheritances supported in Java.   5

    b) Write a program to implement any five string operations.   5

16) a) Explain the different forms of implementing interfaces.   5

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

17) a) Explain the life cycle of thread with a neat diagram.   5

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

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

    b) Write a simple applet program and explain.   5

19) a) Write a program to implement mouse events.   5

    b) Write a short note on graphics class.   5

20) a) Write a program to find the factorial of list of numbers reading input as command line argument.   5

    b) Explain the use of File InputStream Class and File OutputStream Class.   5

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