



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 |

SECTION - B

(5x10=50)

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13) a) Explain the Java program structure.

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

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14) a) Explain the operators in Java.

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

constructor overloading

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