



**GN-453**

28

V Semester B.C.A. Examination, December - 2019  
(CBCS) (F+R) (Y2K14)

**COMPUTER SCIENCE**  
**BCA-504T : JAVA PROGRAMMING**

Time : 3 Hours

Max. Marks : 70

**Instruction :** Answer *all* Sections.



**SECTION - A**

**10x2=20**

**I.** Answer **any ten** questions.

1. JAVA is a platform-independent language. Justify.
2. What is a Vector ? How is it different from an array ?
3. How can you create an instance of a class in Java ?
4. What is Java API ?
5. How are 'this' and 'super' keywords used ?
6. What is System.in and System.out ?
7. What are wrapper classes ?
8. List any four types of listeners in Java.
9. What is an Applet ?
10. What is the difference between an interface and an abstract class ?
11. What is the difference between String and String Buffer class ?
12. What are the different stream classes available in Java ?

**P.T.O.**



## SECTION - B

- II. Answer **any five** questions : **5x10=50**
13. (a) Explain features of Java. 5  
(b) What is the difference between overloading and overriding ? 2  
(c) Explain any three string methods with examples. 3
14. (a) What is Constructor Overloading ? Write a program to demonstrate the same. 5  
(b) Define Inheritance. Explain any two types of Inheritance with example. 5
15. (a) Write a program to illustrate static variables and static methods. 5  
(b) What is package ? How do you create and access a package ? 5
16. (a) Explain life cycle of a thread with neat diagram. 5  
(b) Write a program to implement thread priorities. 5
17. (a) Explain Life Cycle of an applet with a neat diagram. 6  
(b) Explain how parameter are passed to an object. 4
18. (a) Explain any five methods of Graphics class with an example for each. 5  
(b) Write a program to implement mouse events. 5
19. (a) Explain how exception handling is achieved in Java. 5  
(b) Explain final variable, final method and classes with suitable examples. 5
20. (a) Write a program to read data from a file and display it on the console. 5  
(b) Explain the use of Data Input Stream and Data Output Stream with example. 5