



GN-453

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

I. Answer **any ten** questions.

10x2=20

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**