

*" Do not write anything on question-paper except Roll Number, otherwise it shall be deemed as an act of indulging in unfair means and action shall be taken as per rules."*

Roll No. ....

B.C.A. (III)

1731

Java Prog.

**B.C.A. Part-III**  
**EXAMINATION - 2021**

**Paper - I**  
**BCA 301 - Java Programming**

Time Allowed : **Three Hours**

Maximum Marks : **80**

**Note :** 1. Question No. 1 is Compulsory. Attempt any four from the remaining questions.

2. All questions carry equal marks.

1. Define following: 8×2=16
- (a) Tokens
  - (b) Statements
  - (c) Type casting
  - (d) ? operator

- (e) Expression and its evaluation
  - (f) Class
  - (g) Array
  - (h) Applet tag.
2. (a) What is a Thread? Also explain life cycle of thread.  
(b) What is Thread Synchronization? Explain.  
 $8 \times 2 = 16$
3. Differentiate between the following:  $8 \times 2 = 16$   
(a) Local Applet v/s Remote Applet  
(b) C++ v/s JAVA
4. (a) Explain various types of inheritance with suitable examples?  
(b) Write a program in JAVA to implement multi-level inheritance.  
 $8 \times 2 = 16$
5. What is an Interface? Also explain the following terms:  
16  
(a) Extending Interface  
(b) Implementing Interface  
(c) Accessing Interface variable  
(d) Define Interface.

6. (a) Write a program in JAVA to generate a fibonacci series upto n number given by the user. 8
- (b) Write a program in JAVA to print a No into Reverse using class. 8
7. (a) What is an Array? Explain one dimensional and two dimensional array in Java with the help of suitable examples. 8
- (b) What is package? Also explain the following:
- (i) Adding a class to a package with the help of suitable examples.
- (ii) System package. 8
8. Write short notes on following :-  $4 \times 4 = 16$
- (a) Vector
- (b) Static members
- (c) Nesting of method
- (d) Hiding classes.

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