

GO-101-21

Roll No.

ANNUAL EXAMINATION, 2021

B.C.A. III (Old Course)

B.C.A. 302

Paper IV

(Java)

Time : 3 Hours]

[Maximum Marks : 100

Note : *Attempt any two parts from each unit. All questions carry equal marks.*

Unit-I

1. (a) Write down the main features of OOPS and its data types.
- (b) Explain string and string buffer class and also describe wrapper class.
- (c) Specify the utility of vector and write the difference between array and vector.

Unit-II

2. (a) How do implement interface ? Explain with suitable example.
- (b) Write what is method overriding ? How does its differ from method overloading ? Explain.

P. T. O.

- (c) Write short notes on :

- (i) Package,
- (ii) Abstract class.

Unit-III

3. (a) Describe exception handling and its type.
- (b) Describe complete life cycle of thread with example.
- (c) Discuss synchronization with example.

Unit-IV

4. (a) Specify with example TCP/IP client, server socket and URL connection.
- (b) Write the steps for setting the JDBC connectivity with database.
- (c) Write any Java program to illustrate the use of read and write function from console.

Unit-V

5. (a) Explain life cycle of applets.
- (b) Explain mouse and key board events with example.
- (c) Write short notes on :
 - (i) AWT controls,
 - (ii) HTML applet tag.

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