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Reg. No.

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BCACAC 282

**Choice Based Credit System Fourth Semester B.C.A. Degree
Examination, September 2022
(2020-21 Batch Onwards)
JAVA PROGRAMMING**

Time : 3 Hours

Max. Marks : 80

Note : Answer **any ten** questions from Part – A and **one full** question from **each** Unit of Part – B.

PART – A

(10x2=20)

1. a) What is bytecode ?
- b) What is the purpose of break statement ? Give example.
- c) What is dynamic initialization ? Give example.
- d) What are abstract methods and abstract classes ?
- e) What is the use of finally ?
- f) What is the purpose of super() ?
- g) Differentiate between Inet4Address and Inet6Address.
- h) Mention any two types of Containers in swing.
- i) Mention two types of TCP Sockets in Java.
- j) Mention types of JDBC statement objects.
- k) What is a resultset ?
- l) In JDBC how to drop a table ? Give example.

PART – B

Unit – I

2. a) What is data types ? Explain different data types with example.
- b) What is an array ? How to declare one dimensional array ? Explain with syntax and example.
- c) What is looping ? Explain any two types with syntax and example. **(5+5+5)**



- 3. a) Explain any five features of Java.
- b) Explain method overloading with an example.
- c) Explain different forms of if statements with syntax and example. (5+5+5)

Unit – II

- 4. a) What is inheritance ? Explain single inheritance with syntax and example.
- b) What is Exception ? Explain any 4 types of built-in exceptions.
- c) Explain how to create and use a package in Java with suitable example. (5+5+5)
- 5. a) What is constructor ? Explain different types of constructor in java.
- b) What is interface ? Explain how to create and implement interface with an example.
- c) What is multithreading ? Explain how to create thread by extending Thread class with example. (5+5+5)

Unit – III

- 6. a) Write a note on Delegation Event Model in java.
- b) List and explain any five event classes in java.awt.event.
- c) Explain the use of JLabel and any three methods associated with it. (5+5+5)
- 7. a) What is InetAddress ? Mention different InetAddress factory methods with example.
- b) Explain following swing components with an example.
 - i) JTextField
 - ii) JButton
- c) Explain the features of swing. (5+6+4)

Unit – IV

- 8. a) Explain different types of JDBC Drivers.
- b) How to insert data into table using JDBC and embedded SQL ?
- c) How do you connect database, explain with an example. (6+4+5)
- 9. a) Explain how to create JMenu bar, JMenu and JMenuItem with an example.
- b) Explain three kinds of exception thrown by JDBC methods.
- c) Explain Prepared Statement objects with example. (6+5+4)