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

1. a) What is bytecode ?   **(10×2=20)**

   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)**

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