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BCACACN 203

**Second Semester B.C.A. Degree Examination, September 2022
(NEP-2020) (2021 – 22 Batch Onwards)
OBJECT ORIENTED CONCEPTS USING JAVA (DSCC)**

Time : 2 Hours

Max. Marks : 60

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

PART – A

(6×2=12)

1. a) Define the terms :
 - i) Data Encapsulation
 - ii) Data Abstraction.
- b) What is stream ? List different types of streams in Java.
- c) What is vector ? How it is different from array ?
- d) What are constructors ? Mention types of constructors in Java.
- e) What is the purpose of keyword super and super () ?
- f) List any four API packages of Java.
- g) Give the syntax of Applet tag.
- h) List the two key features of a swing GUI.

PART – B

Unit – I

2. a) Explain various features of OOP.
- b) List and explain different primitive data types available in Java. **(6+6)**
3. a) Explain any 6 features of Java.
- b) Explain the increment, decrement and conditional operator with syntax and example. **(6+6)**

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**Unit – II**

4. a) Explain for loop with syntax and example.
b) What are arrays ? Explain how to declare instantiate initialize and use a one-dimensional array with suitable code example.
c) Write the general form of a class. Explain how to define a class in Java with suitable example. **(4+5+3)**
5. a) Explain any two string methods in Java with suitable example.
b) Explain method overloading with suitable example.
c) Explain do while loop with syntax and example. **(4+5+3)**

Unit – III

6. a) What is inheritance ? Explain multi-level inheritance with suitable example.
b) Explain the life cycle of a Thread with diagram. **(6+6)**
7. a) Explain how to create and implement interface using suitable example.
b) Explain exception handling using try/catch with suitable example. **(6+6)**

Unit – IV

8. a) List and explain any 6 methods defined by Applet.
b) Explain how any two Mouse events are handled in java with suitable example. **(6+6)**
9. a) List and explain the components of Delegation Event Model.
b) Explain following swing components with any two methods associated with it.
i) JTextField
ii) Jlist
iii) JRadioButton. **(6+6)**
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