

B.C.A. - III CBCS Pattern Semester-V  
**007 - Elective-I-Paper-III - Core Java**

P. Pages : 2

Time : Three Hours



**GUG/W/23/13082**

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram and use supporting data whenever necessary.
  3. Avoid vague answer and write specific answer related to question.

**Either:-**

1. a) Explain various data types available in Java. 4
- b) Write a program in java to check whether given digit is even or odd. 4

**OR**

- c) Differentiate between else of statement and switch statement. 4
- d) Write a program in java to find area of a rectangle. 4

**Either:**

2. a) What is inheritance? Explain various types of inheritance in Java. 4
- b) Write a program in Java to demonstrate interface. 4

**OR**

- c) Explain the following 4
  - i) Abstract method
  - ii) Abstract class.
- d) Write a program in java to demonstrate single inheritance. 4

**Either:**

3. a) Explain various types of exceptions in Java. 4
- b) What is thread? Explain thread life cycle. 4

**OR**

- c) Write a program to demonstrate try-catch block in Java. 4
- d) Explain multithreading concept in Java. 4

**Either:**

- |           |    |   |          |
|-----------|----|---|----------|
| <b>4.</b> | a) | Explain AWT component in Java.                        | <b>4</b> |
|           | b) | Write a program to demonstrate border layout in Java. | <b>4</b> |

**OR**

- |           |     |  |          |
|-----------|-----|--|----------|
|           | c)  | Write a program in java to read contents from a file and display them. | <b>4</b> |
|           | d)  | Explain following.   | <b>4</b> |
|           | i)  | Grid layout  |          |
|           | ii) | Card layout  |          |
| <b>5.</b> |     | Solve all the questions.   |          |
|           | a)  | Explain Java virtual machine.  | <b>2</b> |
|           | b)  | Explain overriding in Java.  | <b>2</b> |
|           | c)  | Discuss Applet in short.   | <b>2</b> |
|           | d)  | Describe flow lay out in Java.   | <b>2</b> |

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