

**USCST11.1 - Elective-I : Computer Science-I : Core Java**

P. Pages : 1

**GUG/W/24/13345**

Time : Three Hours



Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labeled diagram and use supporting data wherever necessary.
  3. Avoid vague answers and write specific points/answer related to questions.

**Either:**

1. a) What is Array? Explain one dimensional array with example. 5
- b) Explain while statement with syntax and example. 5

**OR**

- c) Explain else-if ladder with example. 5
- d) Write a Java program to perform basic calculator operations. 5

**Either:**

2. a) Enlist the scope rules in java. 5
- b) Explain the concept 'pass by value' 5

**OR**

- c) Explain importing of packages in java. 5
- d) Write a program in java to demonstrate the user defined package. 5

**Either:**

3. a) Explain thread life cycle in detail. 5
- b) What is Exception? Explain any two types of exception. 5

**OR**

- c) Write a java program to use try & catch block. 5
- d) Describe thread synchronization in detail. 5

**Either:**

4. a) Describe flow layout in detail. 5
- b) Explain container in detail. 5

**OR**

- c) Write a java program to demonstrate applet context. 5
- d) What is event? Explain event categories. 5

5. Solve all questions.
  - a) Explain applications of java. 2½
  - b) Write a note on object. 2½
  - c) What is throw keyword? 2½
  - d) Explain listeners in short. 2½

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