Nagarjuna College of Information Technology
Shankhamul -09, Lalitpur
Pre-Board Examination 2079

Bachelor in Computer Applications   **Full Marks: 60**
Course Title: OOP in JAVA   **Pass Marks: 30**
Code No: CACS 204   **Time: 3 hours**
Semester: III

Name: **Roll No:**

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Candidates are required to answer the questions in their own words as far as possible.
Group A

Attempt all the questions.   **[10 × 1 = 10]**

1. Circle (O) the correct answer.
    i.   Which one of the following is not a valid java bitwise operator?
         a)   >>   c)   <<
         b)   >>>   d)   <<<
    ii. What is not type of inheritance?
         a) Single inheritance   c)   Double inheritance
         b) Multiple inheritance   d)   Hierarchical inheritance
    iii. Which of these keywords is used to manually throw an exception?
         a) try   c)   throw
         b) finally   d)   catch
    iv. Which of these method of String class is used to obtain character at specified index?
         a) char()   c)   charat()
         b) Charat()   d)   charAt()
    v.   What is maximum thread priority in Java?
         a) 12   c)   5
         b) 10   d)   8
    vi. Which of these values is returned by read() method when end of file is encountered?
         a) 0   c)   -1
         b) 1   d)   Null
    vii. Which of these interfaces must contain a unique element?
         a) Set   c)   List
         b) Array   d)   Collection
    viii. Which package provides many event classes and listener interfaces for event handling?
         a) java.awt   c)   java.awt.event
         b) java.awt.Graphics   d)   none of the above
    ix. Which of these functions is called to display the output of an applet?
         a) display()   c)   displayApplet()
         b) paint()   d)   printApplet()

    x.   In the following JDBC drivers, which is known as fully java driver?
         a) Native API driver   c)   Thin driver
         b) Network Protocol driver   d)   Both b & c

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Group B

Attempt any six questions.   **[6 × 5 = 30]**

2. Explain entry control and exit control loop control structures.

3. Differentiate between abstract class and interface with suitable example.

4. Define polymorphism. Write an example program to demonstrate polymorphism in Java.

5. Define exception. How exceptions are handled in Java? Explain with a proper example.

6. What is the use of 'this' and 'super' keyword. Explain with examples.

7. Why do we need to use package in Java?

8. Write short note on (Any Two):
    a. Applets
    b. Access Modifiers
    c. JDBC

Group C

Attempt any two questions.   **[2 × 10 = 20]**

9. a) Define linked list. Write a program to demonstrate linked list. [5]

    b) What are the steps involved in making JDBC connectivity? [5]

10. a) Create the GUI form in Java that checks a number entered in the text box is palindrome or not. [5]

    b) Differentiate between AWT and Swing. Explain two Swing controls in Java. [5]

11. a) List and explain any five String methods used in Java with examples. [5]

    b) Define stream. Write a program in java to copy the content from one file to another. [5]