SET - I

**NEW SUMMIT COLLEGE**

Shantinagar, Kathmandu

**PRE BOARD EXAMINATION-2080**

Bachelor Level/Second Semester/Science **Full Marks: 60**

**Computer Science and Information Technology(CSc.409) Time: 3 hours**

**(Advanced Java Programming)**

***Candidates are required to give their answers in their own words as for as practicable. All questions carry equal marks.***

**Long answer questions:**

**Group A**

**Attempt any TWO questions.** (2X10=20)

1. Compare AWT with Swing. Write a GUI program that illustrates a simple calculator using AWT and Swing.
2. What is polymorphism? Explain compile time and run time polymorphism with suitable example of each.
3. Discuss various scopes of JSP objects briefly. Create a HTML file with principal, time and rate. Then create a JSP file that reads values from the HTML form, calculates simple interest and displays it.

**Group-B**

**Attempt any EIGHT questions.** (8x5=40)

1. What are the various ways of creating threads in Java? Explain with example.
2. What are layout managers? Explain Gridlayout with suitable example
3. What is JDBC? Explain 4 types of JDBC drivers.
4. Explain any 4 Listener Inferface in Java for handling events.
5. What is row set? Explain cached row set in detail.
6. Differentiate between TCP and UDP. Why do we need socket programming in Java? Explain.
7. Write a simple JDBC program illustrating the database connection. Also explain the program in brief.
8. What are implicit objects in JSP? Explain.
9. How JavaFx differs from Swing? Explain steps of creating GUI using javaFx.