SET - II

**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. Explain the concept of OOP in detail. Why do we need inheritance in Java. Explain with suitable example.
2. Explain RMI architecture in detail. Write a Java program using RMI to find sum of two numbers.
3. Explain life-cycle of servlet in detail. Create a simple servlet that takes the number as user input from HTML form and display its square.

**Group-B**

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

1. Explain various access modifiers available in Java.
2. Why do we need Swing components? Explain the uses of check boxes and radio buttons in GUI programming.
3. Write a GUI program to accept username and email from the user and display it using a dialog box after user clicks on submit button.
4. What is JDBC? Explain 4 types of JDBC drivers.
5. What is row set? Explain cached row set in detail.
6. Explain various layout managers available in JavaFX.
7. Write a simple JDBC program illustrating the database connection. Also explain the program in brief.
8. How CORBA differs from RMI?
9. Write short notes on:
   1. JDBC Drivers
   2. Java Server Pages