

Tribhuvan University
Institute of Science and Technology

2070

Bachelor Level/ Fourth Year/ Seven Semester/ Science
Computer Science and Information Technology (CSc. 403)
(Advanced Java Programming)
(NEW COURSE)

Full Marks: 60
Pass Marks: 24
Time: 3 hours

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.*

Section A

Attempt any Two questions. (2x10=20)

1. What is interface? How can you use the concept of interface to achieve multiple inheritance? Discuss with suitable example.
2. Write a program using swing components to multiply two numbers. Use text fields for inputs and output. Your program should display the result when the user presses a button.
3. What is RMI? How can you use RMI to develop a program that runs in different machines? Discuss with suitable example.

Section B

Attempt any Eight questions. (8x5=40)

4. What is JDBC? How do you execute SQL queries in JDBC?
5. What is Java Beans? How is it different from Java class?
6. Write a simple Java program to read from and write to files.
7. Discuss different methods used in the life cycle of servlet.
8. Discuss border layout with suitable example.
9. Why multithreading is important in programming? Discuss.
10. Discuss any 5 exception classes in Java.
11. Discuss the role of event listeners to handle events with suitable example.
12. What is socket? How can you communicate two programs in a network using TCP Socket?
13. Write a simple JSP program to display "Lalitpur, Nepal" 10 times.

