

Tribhuvan University
Institute of Science and Technology

2069

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.

1. What are exceptions? Why is it important to handle exceptions? Discuss different keywords that are used to handle exception. (2+2+6)
2. Write a program using swing components to add two numbers. Use text fields for inputs and output. Your program should display the result when the user presses a button. (10)
3. What is java beans? Differentiate it with java class. Discuss bean writing process with suitable examples. (2+2+6)

Section B

Attempt any Eight questions. (8x5=40)

4. Discuss the use of interfaces to achieve multiple inheritance. (5)
5. Discuss the use of multithreading with suitable example. (5)
6. What is JDBC? How do you execute SQL statements in JDBC? (2+3)
7. Discuss grid layout with suitable example. (5)
8. Discuss any five classes to handle files in java. (5)
9. What is JSP? Differentiate it with servlet. (2+3)
10. What is UDP socket? Differentiate it with TCP socket. (2+3)
11. How can you handle events using adapter classes? Discuss. (5)
12. What is RMI? Discuss architecture of RMI in detail. (1+4)
13. Write a simple JSP program to display "Kathmandu, Nepal" 10 times.

