Tribhuvan University
Institute of Science and Technology
2072

Bachelor Level/ Fourth Year/ Seven Semester/ Science   Full Marks: 60
Computer Science and Information Technology (CSc. 403)   Pass Marks: 24
(Advanced Java Programming)   Time: 3 hours
(NEW COURSE)

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 exception handling? Discuss exception handling in detail with suitable example.
2. What is layout management? Discuss any three layout management classes with example of each.
3. Write a Java program using JDBC to extract name of those students who live in Kathmandu district, assuming that the student table has four attributes (ID, name, district, and age).

Section B

Attempt any Eight questions. (8x5=40)

4. Write an object oriented program in Java to find the area of circle.
5. Write a simple java program that reads data from one file and writes data to another file.
6. What are the benefits of using swing components? Explain.
7. Discuss any three event classes in Java.
8. Discuss different driver types on JDBC.
9. What is socket? Differentiate TCP socket from UDP socket.
10. What is servlet? Discuss its life cycle.
11. What is Java Bean? How is it different from other Java classes?
12. What is RMI? How is it different from CORBA?
13. Write short note on:
a. Multithreading
b. RMI architecture

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