

Mid-West University
Examinations Management Office
Surkhet, Nepal
End Semester Examinations -2078

Bachelor level/ B.Sc CSIT /7th Semester
Time: 3 hrs

Full Marks : 60
Pass Marks : 30

Subject : Advanced Java (COM471)

Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.

Group A

Very short questions (Attempt all the questions.)

[8 x 2 = 16]

1. What is bytecode? Write its importance.
2. Differentiate between extends and implements.
3. What do you mean by checked exception? Give two examples.
4. What are advantages of swing over awt?
5. Explain type4 jdbc driver with its merits and demerits.
6. Differentiate between TCP and UDP.
7. What is Updatable ResultSet?
8. What is a servlet? How can you create a servlet?

Group B

Short answer questions (Attempt any five questions.)

[5 x 4 = 20]

9. Discuss Flow Layout with suitable example.
10. Why Exception handling is important in Java? Explain with suitable example.
11. What is Java Beans? How is it different from other java classes?
12. Write a JSP program to display "Birendranagar, Surkhet" 10 times.
13. Write a program to send data from client to server using socket programming.
14. Explain ActionEvent handling in Java GUI.

Group C

Long answer questions (Attempt any three questions.)

[3 x 8 = 24]

15. Create a class Box with three data members: length, width and depth and constructors to initialize the data members, methods to calculate volume and display the data. Create another class MainBox to include main method to create objects and compare two objects.
16. Write a program using JDBC to extract name and district of those students whose age is between 30 and 40, assuming that the student table has four attributes (ID, name, district, age).
17. Write a program using swing components to find largest number out of given three numbers. Use TextFields for inputs and output. Your program should display the result when the user presses a button.
18. Discuss life cycle of servlet in brief. Write an HttpServlet to find factorial of a number including index.html and web.xml.

THE END