



Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2020

Bachelor in Computer Applications

Course Title: Object Oriented Programming in Java

Code No: CACS 204

Semester: III

Full Marks: 60

Pass Marks: 24

Time: 3 hours

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

[6×5 = 30]

2. Define OOP. Write the characteristics of OOP Language. [1 + 4]
3. Explain the operators available in Java programming. [5]
4. Define loop. Write a java program to print first n prime numbers. [1 + 4]
5. Differentiate between abstract class and interface with suitable example. [5]
6. Define access modifier. Explain access modifiers in java with example. [1 + 4]
7. Define exception. Explain exception handling mechanism in java with example. [1+5]
8. Write short note on (Any Two): [2.5 + 2.5]
a) final keyword b) Collection class c) JDBC

Group C

Attempt any TWO questions.

[2×10 = 20]

9. a) Write a program to create and use java package. [5]
b) Define thread. Explain the life cycle of thread. [1 + 4]
10. a) Write a program to sort name of any five cities in ascending order. [5]
b) Define polymorphism. How do we achieve polymorphism in java explain with example? [1 + 5]
11. a) Differentiate between java AWT and java Swing. Explain the different types layout managers in java GUI programming. [2+3]
b) Write a java GUI program to calculate square of entered number. [5]

A screenshot of a Java Swing application window titled "Square Calculator". The window has a title bar with the title and standard window controls. Inside, there is a label "Enter any number:" with a text input field, a button "Calculate Square", and another label "Square of entered number:" with a text input field.