Tribhuvan University Institute of Science and Technology 2073



Bachelor Level / Second Year/ Third Semester/ Science Computer Science and Information Technology (CSc. 202) (Object Oriented Programming)

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

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

Section A

Attempt any two questions:

 $(2 \times 10 = 20)$

- 1. What is object-oriented approach? How is it different from structured programming approach? Discuss the features of object-oriented languages in detail. (2+2+6)
- 2. How can we use inheritance for code reusability? Discuss multiple inheritance with suitable example. (3+7)
- 3. What is function overloading? How is it different from function overriding? Write a program that gives an example of function overriding. (3+3+4)

Section B

Attempt any eight questions:

 $(8 \times 5 = 40)$

- 4. Explain abstraction with example.
- 5. Discuss input and output with C in and C out respectively.
- 6. Discuss relationship between pointers and arrays.
- 7. Explain the use of inline function with example.
- 8. What is class? Differentiate it with object.
- 9. How can you define a member function outside a class? Explain with suitable example.
- 10. Write a program that increases an integer value by 1 (one) overloading + + operator.
- 11. Discuss importance of template. Write syntax of function template.
- 12. Discuss different keywords used in exception handling.

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