1CSc. 202-2069

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Tribhuvan University Institute of Science and Technology

2069

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Bachelor Level/ Second Year/ Third Semester/Science Full Marks: 60

Computer Science and Information Technology (CSc 202) Pass Marks: 24

(Object Oriented Programming) 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:

(2x10=20)

- 1. Differentiate between structural programming approach and object oriented programming approach. Explain the inheritance, polymorphism with example.
- 2. How is a member function of a class defined? Define friend function. What are the merits and demerits of using friend function? Explain.
- 3. Define constructor, list some of the special properties of the constructor functions

Section B

Attempt any eight questions:

(8x5 = 40)

- 4. Explain the do while structure.
- 5. Explain the inline function with example.
- 6. How is dynamic initialization of objects achieved?
- 7. What are the importance of destructors?
- 8. What is an operator function? Explain with syntax.
- 9. Explain with example, how you create space for array of object using pointers?
- 10. Explain the features of I/O system supported by C++.
- 11. Differentiate between overloaded functions and function templates.
- 12. What are the main advantages of using exception handling mechanism in a program?
- 13. What are the major differences between overriding and overloading?

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