

Exam.Code:0906
Sub. Code: 33266

2056
B.E. (Information Technology)
Second Semester
ITC-201: Object Oriented Programming Using C++

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Answer the following:-

- a) List major features required for object-oriented programming.
- b) When you will make a function inline? Why?
- c) Can we have more than one constructor in a class? Justify your answer.
- d) Differentiate between aggregation and composition.
- e) Define file pointer. (5x2)

UNIT - I

- II. a) What are tokens in C++? Explain different types of tokens in C++ with examples.
b) Describe any two real-life examples of object-oriented programming concept. (2x5)
- III. a) Discuss the memory allocation for classes and objects.
b) Explain type conversion between basic and user-defined types. (2x5)
- IV. Write short notes on the following:-
 - a) Dynamic initialization
 - b) Dynamic memory allocation. (2x5)

UNIT - II

- V. Define inheritance. What are different forms of inheritance? Give one example of each. (10)
- VI. a) Define function template. Write a function template for swapping two values.
b) Discuss the use of this pointer. (2x5)
- VII. Write short notes on the following:-
 - a) Object oriented analysis and design
 - b) Standard containers (2x5)

x-x-x