

309.17

Exam.Code:0921  
Sub. Code: 6834

1128  
B.E. (Information Technology)  
Third Semester  
ITE-373/342/324: 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. Define the followings :

- a) Scope Resolution
- b) Encapsulation
- c) Member function
- d) Inline function
- e) This pointer
- f) Static function
- g) Ambiguity
- h) Call by reference
- i) Dynamic memory allocation
- j) Abstract class

(10x1)

UNIT - I

- II. Discuss the main concepts of Object Oriented Programming. Compare and contrast OOP with procedural oriented programming. (10)
- III. a) How can you overload a function? What are the advantages of doing the same? Discuss with example.  
b) Differentiate between local and global variables. (7,3)
- IV. What is friend function? How is it helpful in operator overloading? Discuss with the help of a program. (10)

UNIT - II

- V. Discuss the different types of inheritance with suitable program. Also; discuss invocation of constructor and destructor in Inheritance. (10)

P.T.O.



(2)

VI. Write a program to elaborate the concept of compile time and run time polymorphism in OOP. (10)

VII. Write short note on any two of the following:-

a) Object oriented analysis and design

b) Exception handling

c) Overloading Template functions

(5,5)

x-x-x