B.Tech. (CSE) 4th Semester F. Scheme

Examination, May-2015

OBJECT ORIENTED PROGRAMMING USING C++

Paper-IT-202 F



Time allowed: 3 hours]

[Maximum marks: 100

Note: Question No. 1 is compulsory. Attempt five questions in total selecting one question from each unit.

1. Explain the following:

 $8 \times 2\frac{1}{2} = 20$

- (a) Encapsulation
- (b) Abstract Class
- (c) To declare a member of a class 'static'?
- (d) "const" reference argument in function
- (e) file modes and their purpose
- (f) Copy constructor
- (g) main () function in C++ differ from main () in C?
- (h) member function

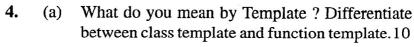
Unit-I

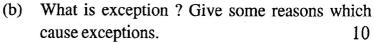
- 2. In what ways Object oriented paradigm is better than structured programming paradigm? Explain features of OOP's.
- 3. (a) Explicate what features of C++ makes it different from C?
 - (b) What is access specifier? Explain its types. 10

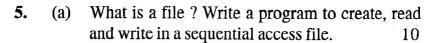
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Unit-II







(b) What do you mean by library files? Explain their role in C++ with suitable examples.

Unit-III

- 6. What do you mean by operator overloading? What are various restrictions in operator overloading? Write a program in C++ to overload binary operator.
- 7. (a) Distinguish between the virtual functions and pure virtual functions. Give suitable examples. 10
 - (b) What do you mean by polymorphism? Explain with the help of example how polymorphism is achieved at (i) compile time (ii) run time.

Unit-IV

- 8. What do you mean by dynamic constructor? Write a program to implement dynamic constructor.
- 9. (a) Explain the use of 'this' pointer. 10
 - (b) What do you mean by Inheritance? Describe its various types.

