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	
Not	_	-	ulsory. Attempt five questions uestion from each unit.	
1.	Explain the following:		8×2½=20	
	(a)	Encapsulation		
	(b)	Abstract Class		
	(c)	To declare a membe	r of a class 'static'?	
	(d)	"const" reference ar	gument 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		

Explicate what features of C++ makes it different

What is access specifier? Explain its types.

from C?

OOP's.

(a)

3.

20

10

Unit-II

- 4. (a) What do you mean by Template? Differentiate between class template and function template. 10
 - (b) What is exception? Give some reasons which cause exceptions.
- 5. (a) What is a file? Write a program to create, read and write in a sequential access file.
 - (b) What do you mean by library files? Explain their role in C++ with suitable examples. 10

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. 10

Unit-IV

- **8.** What do you mean by dynamic constructor? Write a program to implement dynamic constructor. 20
- 9. (a) Explain the use of 'this' pointer.
 - (b) What do you mean by Inheritance? Describe its various types.