	Utech
Name :	
Roll No. :	Advance of Knowledge Tool Conference
Invigilator's Signatı	ıre :
	CS/BCA/SEM-4/BCA-402/2010
	2010

OBJECT ORIENTED PROGRAMMING WITH C++

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following: $10 \times 1 = 10$
 - i) Reusage of a function is also called
 - a) Method overriding b) Function overriding
 - c) Function overloading d) None of these.
 - ii) The argument of a copy constructor is passed by
 - a) Value

b) Reference

- c) Pointer
- d) Both (a) and (c).
- iii) A template provides a convenient way to make a family

of

- a) variables
- b) function

- c) classes
- d) programs.

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iv)	Static members are initialized to				
	a)	0	b)	In the same of the same being that the found	
	c)	Garbage	d)	None of these.	
v)	We can overload a destructor – it is				
	a)	True	b)	False	
	c)	Can't say	d)	None of these.	
vi)	Which of the following operators can be overloaded?				
	a)	.(dot)	b)	::	
	c)	%	d)	?:	
vii)	Tellp () tells the position of				
	a)	File	b)	Getpointer	
	c)	Putpointer	d)	Constructor.	
viii)	C++ is a programming language of type				
	a)	Structured	b)	Non-structured	
	c)	Procedural	d)	Module based.	
ix)	A friend function can be called				
	a)	directly			
	b)	like a general function			
	c)	by using the object of the class			
	d)	should not be called.			
x)	In an abstract class we can create object.				
	a)	True	b)	False	
	c)	Can't say	d)	None of these.	



GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $\times 5 = 15$

- 2. Can we overload a destructor? Explain.
- 3. What is dynamic binding? When do we use it? Explain with example.
- 4. What are the differences between a structure in C and a class in C++?
- 5. What is a constructor ? Explain copy constructor with an example.
- 6. What is function overloading? Explain with a simple example.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following.

 $3 \times 15 = 45$

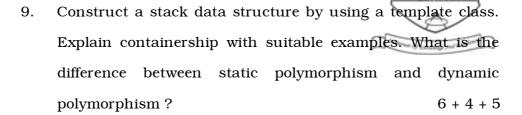
- 7. What do you mean by Object-Oriented Programming?

 Discuss the different properties of an Object-Oriented

 Programming.

 3 + 12
- 8. What is template? Why is it used? Describe different templates. 5 + 10

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10. Write a C++ program to implement a class called "String" for string manipulation. Overload +=, + and = operator, for string append, concatenation and assignment respectively.

5 + 5 + 5

11. Write short notes on any three:

 3×5

- a) Multiple inheritance
- b) Exception handling
- c) Operator overloading
- d) Pure virtual function
- e) Stream.

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