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			CS/E	CA/	SEM-4/BC	A-402/201
, Profil Maria da			2010).		
OBJ	ECT	ORIENT	ED PROC	}RA	MMING V	VITH C++
Time Ali	lotted	: 3 Hours		•	Fu	ıll Marks : 70
	T	he figures in	ı the margin	indic	ate full mari	cs.
Candid						r own words
			as far as p			. own words
			GROUP .	- A		
		(Multiple	Choice Ty	pe (questions)	
1. Ch	oose	the correct	alternatives	for tl	ne following	: 10 × 1 = 1
i)	Reı	usage of a fi	unction is al	so ca	lle d	
	a)	Method o	verriding	b)	Function	overriding
	c)	Function	overloading	.d)	None of th	ese.
ii)	The	argument	of a copy co	nstru	ctor is pass	ed by
	a)	Value		b)	Reference	
	c)	Pointer		d)	Both (a) ar	nd (c).
iii)	A te	mplate pro	vides a con	venie	nt way to m	ake a family
	of					
	a)	variables		b)	function	
	c)_	classes		d)	programs.	
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		1.1				

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iv)	Static members are initialized to						
	a)	0	b)				
	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						
e del La companya	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 a	In an abstract class we can create object.					
	a)	True	b)	False			
	c)	Can't say	d)	None of these.			
1.4							

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GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 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.

 $3\times15=45$

- 7. What do you mean by Object-Oriented Programming?Discuss the different properties of an Object-Oriented Programming.
- 8. What is template? Why is it used? Describe different templates. 5+10

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- 9. Construct a stack data structure by using a template class. Explain containership with suitable examples. What is the difference between static polymorphism and dynamic polymorphism?
 6+4+5
- 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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