Enrollment No: \_\_\_\_

Exam Seat No:\_\_\_\_\_

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## C.U.SHAH UNIVERSITY Summer Examination-2020

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Subject Name : Object Oriented Programming with C++

Subject Code : 4C	S03IPC1	Branch: B.Sc.I.T.		
Semester : 3	Date :25/02/2020	Time : 02:30 To 05:30	Marks : 70	
Instructions				

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

## **Q.-1** Attempt following MCQs.

	members are global memb	ers for all	classes.
a)	private	b)	protected
c)	public	d)	none
	is memory allocation operator		
a)	free	b)	delete
c)	new	d)	cin
Whic	ch is used for memory de-allocation	n in c++?	
a)	new	b)	delete
c)	realloc	d)	dynamic
	_ operator is used to input data in v	variables.	
a)	>>	b)	<<
c)	::	d)	None
The :	• operator is an operator.		
a)	Arithmetic	b)	Logical
c)	scope resolution	d)	Relational.
	is special type of member	function.	
a)	Inheritance	b)	Dynamic binding
c)	Package	d)	Constructor
Wec	an't create object of class.		
		b)	sub
a)	abstract	0)	sub



		c)	super	d)	None	
	8)	is not a concept of OOP.				
	-)	a)	Polymorphism	b)	Class	
		c)	Array	d)	inheritance	
	9)	A spe	cial type function known as			
		a)	insertion	b)	extraction	
		c)	finalize	d)	inline	
	10)		h types of type conversion available in			
		a)	implicit	b)	explicit	
		c)	A and B	d)	None of these	
	11)		e is default parameters be placed by u	•		
		a)	left most	b)	right most	
		c)	Both A and B	d)	None	
	12)		n of the following permits function overloading on c++?		ng on c++?	
		a)	type			
		b)	number of arguments Both A and B			
		c) d)				
		d)	Number of objects.			
	13)		l base class used in		_	
		a)	Destructor	b)	Constructor	
		c)	inheritance	d)	none of these	
	14)		is a pure virtual function in C++? A virtual function defined in a base	.1		
		a) b)	A virtual function declared in a base			
		b) c)	Any function in a class	e class		
		d)	A function without definition in a b	ase clas	s	
		,			5	
<u>Atten</u>	<u>ipt any</u>	FOUR	Question.			
Q2	Atten	tempt following.				
	a) Explain basic concept of OOP.					
	b) What is <i>inline</i> Function? Explain with suitable example.				e.	
	c) Give difference between C and C++.					
Q3	Atten	npt foll	owing.			
	a) W	'hat is <i>ii</i>	nheritance? Explain single inheritance	e with e	xample.	

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b)	Explain constructor overloading with example.	5
c)	Explain function overloading with example.	4

Q4	Attempt following.		
	<ul> <li>a) Write a note on: <i>friend</i> Function.</li> <li>b) What is DMA? Explain with example.</li> <li>c) Explain ++ operator overloading with suitable example.</li> </ul>	5 5 4	
Q5	Attempt following.	14	
	<ul><li>a) Discuss array of objects with example.</li><li>b) Explain process of passing object to a function with example.</li><li>c) Explain <i>new</i> and <i>delete</i> operator with example.</li></ul>	5 5 4	
Q6	Attempt following.	14	
	<ul><li>a) Differentiate early binding Vs late binding.</li><li>b) Explain <i>abstract</i> keyword with suitable example.</li><li>c) What is <i>virtual function</i>? Explain with example.</li></ul>	5 5 4	
Q7	Attempt following.	14	
	<ul><li>a) Describe class template.</li><li>b) Explain function template overloading with example</li><li>c) Explain <i>protected</i> keyword with example.</li></ul>	5 5 4	
Q8	Attempt following.	14	
	a) Write a C++ program to create class <i>student</i> (rollno, name, stream) data men and input data using constructor and also print data.	nbers 7	
	b) Create <i>date</i> class with integer members ( <i>dd</i> , <i>mm</i> , <i>yy</i> ) and Write a program to increment entered date using ++ operator.	) 7	

