BCA 3rd SEMESTER EXAM. 2014 OBJECT-ORIENTED PROGRAMMING USING C++ CODE- 303301

Time:	3 hours	Full Marks: 60			
Instru	Instructions:				
i. ii. iii. iv.	The Marks are indicated in the right -hand more than the right series of the series of	nargin.			
1. A	nswer the following as directed (any six).	6*2=12			
(a) Base class pointer cannot point to derived class					
(State True or False)					
	(b) Which of the following is not the member of class				
	(I) Static function	(II) Friend function			
	(III) Const function	(IV) Virtual function			
	(c) Which of the following access specifies is used in a class definition by default?				
	(I) Protected	(II) Pubic			
	(III) Private	(IV) Friend			
(d) What happens when a class with parameterized constructor and having no default					
	Constructor is used in a program and we create an object that needs a zero-				
	arguments constructor?				
	(e) If the programmer does not explicitly provide a destructor, thencreates an empty				
	destructor.	(Fill In the blanks)			
	(f) What is the use of function call operator?	?			
	(I) Overloading the method	(II) Overloading the objects			
	(III) Overloading the parameters	(IV) none of the above			
(g) Which of the following advantages we lose by using multiple inheritances?					
	(I) Dynamic binding	(II) Polymorphism			
	(III) Both (i) and (ii)	(IV) none of the above			

(h) Which of the following is referred by pointers to member?

6*2=12

	• •	Static members of class objects) Referring to whole class	(II) Non-static members of clas (IV) none of the above	s objects
	(i) What o	does derived class not inherit from the b	ase class?	
	(1)	Friends	(II) Operator = () members	
	(111) Constructor and destructor	(IV) A of the above	
	(j) Which	the class other than class?		
	(1)	Struct	(II) Union	
	(111) Object	(IV) both (i) and (ii)	
2.	Answer any	three of the following:	3	8*4=12
	(a) What is	s an operator function? Describe its syntax.		
	(b) Explair	n the characters of constructor and destruct	or.	
	(c) Write s	yntax for overloading extraction and inserti	on operator with friend function.	
	(d) Explain	the mechanism for accessing private memb	per of the base class using pointers.	
	(e) Describ	pe various errors trapping function.		
An	swer any thr	ree of the following:	3	8*12=36
3.	(a) What is fu	nction overloading? What are the rules for o	defining overloaded functions? Prec	autions
	should us	tae while overdoing function?		6
	(b) Write a pro	ogram in C++ to use bit fids with cases displa	y the contents of the objects.	6
	(a) How are t	he constructor and destructor called explicids?	tly? What is the difference betweer	n 6
((b) Write a pro	gram in C++ to pass an object to constructor	and carry out copy constructor	
	display co	ntents of the objects.		6
5.		tor overloading? Explain the conversion of back sic type with appropriate example.	asic data type to class type and clas	ss 12
6.	(a) Describe	various type of inheritance with example.		6
	(b) Write a pr	ogram in C++ to declare class X Y and Z. Eac	n class contains one character array	as
		nber. Apply multiple inheritance. Concaten	•	e it in Z. 6
7.	(a) What are	templates? Explain its need. How can norm	al function be declared as template	function?

hmWrite a program in C++ to use exception handing with constructor and destructor.