## Second Year B.C.A (Semester - I) Examination Paper - 15BCA202

## Object Oriented Programming Using C++

Time : Three hours]	[Full Marks - 60				
iv) Illustrate your an of neat sketches	· ·				
Q.1 Choose correct alternative	es. 5				
	·				
known untilits call a ru					
	ii) Call binding				
	iv) Final binding				
b) The reference variable	b) The reference variable must be preceded with a				
symbol.					
i) *	ii) &				
iii) #	iv) \$				
c) A non member function	A non member function which can access the member				
of a class must be dec	lared as with that class.				
i) Public	ii) Linked				
iii) Bound	iv) Friend				
d) Which of the following	Which of the following operator is used for allocating				
memory dynamically.					
i) new	ii) alloc				
iii) create	iv) set				
e) Which of the following	Which of the following stream function is used to				
clear the contents of the	clear the contents of the buffer.				
i) clear	ii) flush				
iii) de le te	iv) clean				

Q.2	a)	Describe the enumerated data type in C++ with		Q.8 a)	Write a program to overload a binary'+' operator
		proper example.	6		for concatenating two strings.
	b)	What is encapsulation? Explain with proper		b)	Explain the dynamic memory allocation in C++.
		example.	5		
		OR			OR
Q.3	a)	Write a program to exchange the values of two		Q.9 a)	What is 'this' pointer? Explain with suitable
		variables using reference variables.	6		example.
	b)	Describe the built in data types in C++.	5	b)	What is Inheritance? Explain various visibility modes in inheritance.
Q.4	a)	What is inline function? State the rules for defining			
		inline function.	6	Q.10 a)	Create a class "test 1" with suitable members. Derive
	b)	Describe explicit type conversion with the help of			a class "test 2" from "test 1" write a program to access
		suitable example.	5		the members of class "test 2" usig pointer.
		•		b)	Describe various modes for opening a file.
		OR			
Q.5	a)	Write a function simp-int ( ) which accepts three			OR
(	)	parameters pamt, rate, years and calculates simple			
		interest. The function should be defined using default		Q.11 a)	Write a program which reads the contents of a file
		arguments.	6	1.	"fl.txt" and copy them to another file "f2.txt"
	b)	Explain the switch statement in C++. with suitable		<b>b</b> )	b) What is a virtual function? State the rules for defining
	,	example.	5		a virtual function.
		•			
Q.6	a)	Write a C++ program to explain the concept of cop	y		
		constructor.	6		
	b)	Describe the ways for defining a member function			
		with suitable example.	5		
		OR			
Q.7	a)	What is default constructor? Explain with suitable			
Q.7	a)	example.	6		*****
	b)	Explain the nesting of member function with suitable			ጥ ጥ ጥ ጥ ጥ ጥ ጥ
	0)	example.	5		
		*·····································	-		