Seat No.:	
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DD-101

December-2021

B.C.A., Sem.-III

CC-203: Objecte Oriented Concept & Programming

Time: 2 Hours] [Max. Marks: 50					
Instructions: (1) All Questions in Section – I carry equal marks.					
		(2)	Attempt any two Questions from Section – I .		
			(3)	Question – 5 in Section – II is compulsory.	
				Section – I	
1.	(A)	Ansv	wer th	e following:	
		(i)		at is reference variable? How can we create it? Explain with suit inple.	able 5
		(ii)	Writ	te short note on function overloading with suitable example.	5
(B) Ans			swer the following:		
		(i)	List	and explain all access specifiers used in C++.	5
		(ii)	Wha	at is class? How to create it? Explain with suitable example.	5
2. (A) Answer the following:		e following:			
		(i)	Wha	at is destructor? List all characteristics of a destructor.	5
		(ii)	Expl	lain array of objects with suitable example.	5
	(B) Ans		wer th	e following:	
		(i)	Expl	lain all types of constructor by taking an example.	5
		(ii)	Writ	te short note on : Dynamic memory allocation in C++.	5
3.	3. (A) Answer the following:		e following:		
		(i)	Expl	lain multiple inheritance with suitable example.	5
		(ii)	Diffe	erentiate between early binding & late binding.	5
	(B)	Ansv	nswer the following:		
		(i)	Wha	at is function overriding in inheritance? Explain with example.	5
		(ii)	Wha	at is Virtual base class? How to create it? Explain by taking a suit	able
			exan	nple.	5
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4.	(A)	Answer the following:				
		(i) How to do type conversion from class type to basic type? Explain by example.	5			
		(ii) Discuss class template by taking a suitable example.	5			
	(B)	Answer the following:				
		(i) Demonstrate the overloading of any one relational operator with example.	5			
		(ii) How to overload function template with ordinary function? Explain with example.	5			
		Section – II				
5.	Atten	Attempt any ten:				
	(i)	Friend function do not require :: operator while defining it outside the class (True / False)				
	(ii)	If we define member function inside class then by default it becomes inline function. (True / False).				
	(iii)	Define data hiding.				
	(iv)	A constructor that accepts no. of parameters is called the default constructor.				
	(v)	Private members in a class are never inherited. (True / False)				
	(vi)	Memory size of an object is sum of size of each member data in a class.				
		(True / False)				
	(vii)	Function overloading is an example of polymorphism.				
	(viii)	A class having pure virtual function is called abstract class. (True / False)				
	(ix)	Define pure virtual function.				
	(x)	A function template can have more than one template type as arguments.				
		(True / False)				
	(xi)	What is the purpose of ifstream class?				
	(xii)	is the base class of file stream class hierarchy.				

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