

III Semester B.C.A. Degree Examination, March/April 2022 (CBCS)

(Y2K14) (F+R) COMPUTER SCIENCE

BCA 303 : Object Oriented Programming Using C++

Time: 3 Hours

		Instruction : Answer all Sections.	
		SECTION - A trace and element	
١.	Ans	wer any ten questions. Each question carries two marks.	10×2=20)
	1)	List any two advantages of OOP.	
	2)	Define data abstraction.	
	3)	What are in-line functions?	
	4)	Define array of objects with an example.	
	5)	What do you mean by default constructor?	
	6)	List any four operators which can be overloaded.	
	7)	Define 'this' pointer.	
	8)	What is the use of 'const' keyword?	
	9)	Give the general syntax of cin and cout statements.	
	10)	What are virtual functions ?	
	11)	Define function template with its syntax.	
	12)	What are command line arguments?	
		SECTION - B	
11	Δn	swer any five questions. Each question carries 10 marks.	(5×10=50)
-11	12)	a) Differentiate between procedure oriented programming and	object

11.	Ans	we	r any five questions. Each question carries 10 marks.	(5×10=50))
	13)	a)	Differentiate between procedure oriented programming and oriented programming.	object	5
		h)	What do you mean by manipulators? Explain any three manipul	ators.	5
			Explain function overloading with an example.		5
	14)		Explain access specifiers of class.		5
				PTC)

15)	a)	Explain parameterized constructors with an example.	5
	b)	Explain the types of casting with examples.	5
16)	a)	Explain multilevel inheritance with a program.	5
	b)	Explain the types of polymorphism.	5
17)	a)	Explain pure virtual function with an example.	5
	b)	Write a C++ program to swap two numbers using friend function.	5
18)	a)	Explain class templates.	5
	b)	Demonstrate the use of try and catch blocks in C++.	5
19)	Wı	rite a short note on :	
	a)	Function overriding.	3
	b)	Input and output streams.	3
	c)	Seekg() and Seekp() function.	4
20)	a)	What is an abstract class? Explain with an example.	5
	b)	Write a C++ program to add two complex numbers by overloading '+' operator.	5

8 - MOITHER