

DCD-10

Seat No. _____

B. Sc. (Computer Application) (Sem. II) (CBCS) (W.E.F. 2019) Examination

July - 2022

CA-201 : Advanced C & Object Oriented Programming Using C++

Time : $2\frac{1}{2}$ Hours] [Total Ma					
1	(a)	Attempt following questions:			
		(1)	FIFO stands for		
		(2)	Collection of node is called		
		(3)	List out SORTING techniques.		
		(4)	Stack Use approach.		
	(b)	Ans	wer in brief : (Any one out of two)	2	
		(1)	What is Prefix and Postfix?		
		(2)	What is PUSH and POP in Stack?		
	(c)	Ans	wer in detail : (Any one out of two)	3	
		(1)	Explain Linear and Non-Linear data structure		
		(2)	Write Bubble sort technique		
	(d)	Wri	te a note on : (Any one out of two)	5	
		(1)	Explain Singly Linked List with example.		
		(2)	Explain Stack		
2	(a)	Attempt following questions:			
		(1)	Wrapping a data into a single unit is called encapsulation (True/False)	l	
		(2)	Function overloading is also called polymorphism (True/False)	L	
		(3)	Write visibility modes in C++.		
		(4)	insertion operator in C++		
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	(b)	Answer in brief: (Any one out of two)			
		(1)	Explain default argument in C++.		
		(2)	Explain cin and cout.		
	(c)	Answer in detail : (Any one out of two)			
		(1)	Explain data types in C++.		
		(2)	Explain scope resolution operator.		
	(d)	Write a note on: (Any one out of two)			
		(1)	Explain Class and Object		
		(2)	Explain Array of objects with example		
3	(a)	Attempt following questions:			
		(1)	List out types of Inheritance.		
		(2)	Constructor is a special member function that initialize when object created (True/False).		
		(3)	is used to destroy the objects that have been created by a constructor.		
		(4)	Define base and derived class.		
	(b)	Answer in brief: (Any one out of two)			
		(1)	Explain Default constructor.		
		(2)	Define abstract class		
	(c)	Answer in detail: (Any one out of two)			
		(1)	Explain Parameterized Constructor with example.		
		(2)	Explain Destructor		
	(d)	Wri	te a note on : (Any one out of two)	5	
		(1)	Explain multilevel inheritance with example		
		(2)	Explain Virtual base class		

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4	(a)	Attempt following ouestions:		4
		(1)	List out types of polymorphism	
		(2)	Define fill()	
		(3)	Define setf()	
		(4)	virtual void display() = 0; is called pure virtual function (True/False)	
	(b)	Answer in brief: (Any one out of two)		2
		(1)	Explain getline() and write() functions in C++ Stream.	
		(2)	Explain this pointer	
	(c)	Ansv	wer in detail : (Any one out of two)	3
		(1)	Explain width() and precision() functions for formatted console I/O.	
		(2)	Explain Operator overloading	
	(d)	Write a note on: (Any one out of two)		5
		(1)	Explain C++ Stream.	
		(2)	Explain Polymorphism	
5	(a)	Attempt following questions:		4
		(1)	Define file	
		(2)	Define ifstream class	
		(3)	Define ios :: in	
		(4)	Define logic and syntactic error	
	(b)	Ans	wer in brief: (Any one out of two)	2
		(1)	Explain try, catch and throw.	
		(2)	Explain File stream classes	

- (c) Answer in detail : (Any one out of two)

 (1) Explain open() function in files
 - (2) Write a program for divide by zero exception in C++.
- (d) Write a note on: (Any one out of two) 5
 - (1) Explain Exception Handling Mechanism in C++
 - (2) Explain File modes.

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