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COMPUTER SCIENCE SAMPLE QUESTION PAPER CLASS-XII

Max. Marks: 70 TIME: 3 hrs

General Instructions:

- All questions are compulsory.
- Question paper is divided into 8 sections pertaining to 8 units respectively.

		SECTION-1	
Q1.	(a)	What are the advantages of Object Oriented Programming?	4
		(OR)	
	į	Write a program in C++ to implement concept of function	
		overloading.	
	(b)	Explain the concept of data hiding and data encapsulation.	3
	(c)	Explain the public and private access specifiers.	3
	(d)	Briefly explain the use of scope resolution operator.	2
	(e)	Define an object.	1
	(f)	The members of a class are by default private. (true/false)	1
	(h)	Private members of a class can be accessed by	1
		1. Private member functions of the class	
		2. Public member functions of the class	
		3. Both 1 and 2	
		4. None of the above	
		SECTION-2	
Q2.	(a)	Write down the special characteristics of a constructor.	3
	(b)	Define a destructor.	1

	(c)	A destructor is used to	1
0	(0)		
		1. Destroy the classes	
		2. Destroy the objects	
		3. Destroy the functions	
		4. None of the above	
		SECTION-3	
Q3.	(a)	Explain the concept of multiple inheritance using a diagram.	3
	(b)	Define a base class.	1
	(c)	Inheritance is used to	1
		1. Rename a class	
		2. Reuse a class	
		3. Hide the class members	
		4. Overload a function	
		SECTION-4	
Q4.	(a)	Explain pointer initialization with an example.	3
	(b)	Define dynamic memory allocation.	1
	(c)	An integer pointer can store	1
		1. An integer value	
		2. Address of an integer variable	
		3. Both 1 and 2	
		4. None of the above	
		SECTION-5	
Q5.	(a)	Define an Array? Explain 1D and 2D arrays.	4
		(OR)	
		Write a program in C++ to implement linear search.	

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	[/b)	Evals in such and non apprentians used on a steel	1
V	(b)	Explain push and pop operations used on a stack.	3
	(c)	Define sorting.	2
	(d)	An enqueue operation means to	1
		1. Insert an element into a stack	
		2. Delete an element from a stack	
		3. Insert an element into a queue	
		4. Delete an element from a queue	
		SECTION-6	
Q6.	(a)	What is SQL? Write down the advantages of SQL.	4
		(OR)	
		Explain the concept of relational data model.	
	(b)	Define relation, tuple and primary key.	3
	(c)	Define degree of a relation.	2
	(d)	Alter command is used to:	1
		1. Delete a table	
		2. Delete a record	
		3. To modify the data	
		4. To modify the table structure	
		SECTION-7	
Q7.	(a)	What is a logic gate? Explain AND gate using truth table and logic	4
		diagram.	
		(OR)	
		Explain the functioning of the AND and OR operators using truth	
		table.	
	(b)	State and prove DeMorgan's law using truth table.	3
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(c)	Draw a circuit diagram for the following expression using AND, OR and NOT gates:	2
	f=A+(B.C)'+D'	
(d)	If an OR gate is given input as 1 and 0, the output will be	1
	1. 1	
	2. 0	
	3. 2	
	4. None of the above	
	SECTION-8	-
(a)	Define networking. Explain different types of networks. (OR)	4
	Define transmission medium. Write a note on optical fibre.	
(p)	Write down measures for safe social networking.	3
(c)	Differentiate between bus topology and star topology.	2
(d)	A network topology in which all the nodes are connected through a hub is known as 1. Star topology 2. Ring topology 3. Bus topology	1
		Star topology Ring topology