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Roll No.....

Total No. of Questions: 8]

[Total No. of Printed Pages: 7

# XIIKDAR21

5034-B

Time: 3 Hours]

# COMPUTER SCIENCE

COMIT WILK SCILIVEL

[ Maximum Marks: 70

#### Section-1

 (i) Explain the concept of scope resolution operator with the help of a C++ program.

Or

- Define object-oriented language. Explain its various elements. 4
- (ii) Define Class. Explain Data Members and Member Functions of a Class.
- (iii) Define Object Explain Array of objects. 3
- (iv) Explain the significance of Access specifier. 2
- (y) Define Polymorphism.

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Turn Over

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	(/i) C++ is a object-oriented programming language.	
	(Truc/False)	1
	(vii) How many access specifiers are there in C++?	
	(A) 04	
	(B) 01	
	(C) 03	
	(D) 02	1
	Section-2	
2.	Define Constructor. Explain Default Constructor.	3
	(if) Destructor can not be inherited. (True/False)	1
	(iii) is called when an object goes out of scope.	
	(A) Class	
	(B) Destructor	
	(C) Main Function	
	(D) Constructor	1

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### Section-3

3.	<b>(1)</b>	Define Inheritance. Explain multilevel inheritance and multiple	
		inheritance.	3
	(ii)	Define private visibility mode.	1
	(iii)	Inheritance supports Data Hiding. (True/Finse)	1
		Section-4	
ŧ.	-( <del>i</del> ).	Define Pointer. Explain its declaration.	3
	( <del>88</del> ).	Define Delete Operator.	1
	(žíí)	Memory allocated during compilation of a program is called	
		•••••	
		(A) New Allocation	
		(B) Variable Allocation	
		(C) Static Allocation	
		(D) Dynamic Allocation	1

Turn Over

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### Section-5

(i) Define an Array. Explain transversal operation in Array.

Or

What do you mean by Sorting? Explain Bubble sort with the help of example.

4

3

1

- (ii) Define Stack Explain its two operations.
- (üi) What is a Queue? Give its two advantages.
- (iv) FIFO is used in .....
  - (A) Queue
  - (B) Linked List
  - (C) Stack
  - (D) Array

Section-6

Explain Data Definition Language and Data Manipulation Language in SQL.

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Or

		O/		
	Explai	in Database and write its advantages.		
(d)		the following terms		
	(a) ]	Domain		
	(b) 1	Primary key		
	(c)	Tuple		
(iii)	Write	three Parts of SQL.		
(is/)	Which	of the following SOL command is used to add a		
		n to an existing table ?		
	(A)	Select		
	(B)	Update		
	(C)	Create		
	(D)	Alter		
Section-7				

(i) State and prove De-Morgan's laws by using Truth-Table.

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Or

	Explain NAND and NOR gate with Truth-Table and logic				
	circuits.				
(ii)	State and explain Principle of Duality	3			
(iii)	Define AND and OR operators.	2			
(iv)	Truth-Table is used to express:				
	(A) Boolean Subtraction				
	(B) Boolean Division				
	(C) Boolean Expression				
	(D) Boolean Addition	1			
Section-8					
i)	Define Topology. Explain Bus and Ring Topologies in				
	detail.				
	Or				
	Write a note on Transmission Media.	.4			

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(ii)	What do you mean by Network? Explain Local Area	Network.	3
(iii)	What is Cyber Security.?		2
(iv)	Network failure is Primarily a issue.		
	(A) Performance		
	(B) Security		
	(C) Reliability		
	(D) None of these		1