B-16-Y

Roll No..

Total No. of Questions: 8].

[Total No. of Printed Pages: 7

XIIARJKUT23

9116-Y

COMPUTER SCIENCE

Time: 3 Hours]

[Maximum Marks: 70

SECTION-1

1. (i) How is member function defined inside a class? Explain with an example.

Or

How is a class defined in C++? Explain member functions of

a class.

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(ii) How is Polymorphism achieved at run time?

3

(iii) Write features of object oriented programming.

3

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	(iv)	What is an object ?	2
	(v)	Wrapping up of data and functions togethers is known as	
		(Fill in the blank)	I
	(vi)	Public member is not accessible outside the class. (True/False)	1
		How many objects can be in the same class?	
		(A) 02	
		(B) 04	
		(C) 03	
		(D) As much as possible	1
2.	(i)	SECTION-2 Define Default Constructor. How to write it? Explain with	1
		example.	3
	(ii)	A Destructor is used to destroy the objects. (True/False)	1
	(iii)	Like constructor, there can be more than one destructor in a	
	•	class. (True/False)	1

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SECTION-3

3. (i)	The state of the s	3
	Explain any such one.	
(ii)) Define derived class.	1
(iii	i) Which symbol is used to create multiple inheritance?	
	(A) Colon (:)	
	(B) Comma (,)	
Company of the second	(C) Dot (.)	
	(D) None of these	1
The section of the	SECTION-4	
4. (i)	Explain declaration and initialization of pointers.	3
(ii)	What is stored in pointer variable ?	
	(A) An integer	
	(B) Floating point value	
	(C) A memory address	
	(D) Any C++ value	1
(iii)	This pointer points to another class. (True/False)	1
	SECTION-5	
5. (i)	Differentiate between Linear search and Binary Search.	
	Or	
	Write a C++ program to push an element into a stack.	4
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3 (ii) What is an Array? Explain 1D array. 2 (iii) Define Enqueue and Dequeue. 1 (iv) Define Array Index. SECTION-6 (i) What is SQL? Explain three parts of SQL. OrWhat is Database? Explain relational data model. Define the following SQL functions: (ii) SUM() (a)

3

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(b)

MAX()

(iii) Define CREATE command with syntax.
(iv) is defined as a set of values of the same type.
(A) Tuple
(B) Relation
(C) Attribute

SECTION-7

7. (i) State and explain principle of duality. Why is it important in Boolean algebra?

Or

Explain functioning of AND gate with circuit diagram and Truth-Table.

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1

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(D) Domain

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(ii) State and prove Distributive Law by Truth-Table.	3
(iii) Draw Truth-Table of OR operator.	2
(iv) Which of the following is Universal Gate?	
(A) AND(B) OR(C) NAND(D) NOT	. 1
SECTION-8 (i) Describe coaxial cable with its advantages and disadvantages.	
Or	
What is Cyber Security ? Why is cyber security important	?

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Explain.

(ii) Define Networking and write its advantages.

3

(iii) Write a brief note on Star Topology.

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- (iv) Which of the following is not a Computer Network?
 - (A) TAN
 - (B) PAN
 - (C) LAN

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(D) MAN

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