A-	-31	-B
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Roll No.....

Total No. of Questions: 8]

[Total No. of Printed Pages: 7

12thSZARJD22

6031-B

COMPUTER SCIENCE

Time: 2.30 Hours [Maximum Marks: 70

Section-1

 (i) Explain the concept of Object Oriented Programming. Enlist its advantages.

Or

- Explain concepts of Data Encapsulation and Data Hiding. 4
- (ii) What is Class? Describe the syntax of class declaration.
- (iii) Write a program to implement concept of function overloading. 3
- (iv) Explain Scope Resolution Operator. 2

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Turn Over

	(V)	Define a Member Function.	1
	(yit)	Objects are called physical constructs. (True/False)	1
	(vit	Correct way of declaring object of class is:	
		(A) Class classname objectname	
		(B) Classname object objectname	
		(C) Classname objectname	
		(D) None of these	1
		Section-2	
2.	(i)	What is a Constructor? Describe parameterized constructor.	3
	(ii)	Destructors is not return type function. (True/False)	1
	(iii)	A constructor that accepts no parameters is called:	
		(A) Parameterized constructor	
		(B) Default constructor	
		(C) Both (A) and (B)	
		(D) None of these	1
		•	

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Section-3

3

3.	(17)	What is Inheritance? Describe the concept of multiple inheritance.	3
	(ii)	Define a Derived Class.	1
	(îii)	In multiple inheritance, a subclass is derived from one base	
		class. (True/False)	1
		Section-4	
4.	(i)	Giving a suitable example, explain a "Pointer".	3
	(ii)	A pointer is a user defined data type. (True/False)	1
	(iii)	A new operator is used to :	
		(A) Allocate the memory	
		(B) Deallocate the memory	
		(C) Both (A) and (B)	
		(D) None of these	1
12 th	SZAR	JD22—6031-B Turn Ove	r

Section-5

5. (i) Explain Binary Search.

Or

Define an Array. Describe its Memory Representation.

4

(ii) Define Stack. Describe two main operations performed on

stack. 3

- (iii) Define term Sorting.
- (iv) Queue is a data structure which follows:
 - (A) FIFO principle
 - (B) LIFO principle
 - (C) Both (A) and (B)
 - (D) None of these

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A-31-B

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Section-6

6. (i) Define Database. What are its advantages?

Or

What is DDL? Discuss its commands.

(ii) Define SQL. What are its advantages?

(iii) Write the use of Insert Command and Delete Command.

2

(iv) Write the use of SQL function Max().

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Section-7

7. (i) Explain Universal Gate behaviour of NAND Gate.

Or

Giving Logic Gate symbol and truth table, describe the principle operation of OR Gate.

12thSZARJD22--6031-B

Turn Over

4

(ii) State and explain De Morgan's	laws using truth table. 3
(iii) Explain AND Operator using tr	ruth table. 2
(iv) The output of NOR Gate is 1	when the two inputs are :
(A) 0 and 1	
(B) 1 and 1	
(C) 0 and 0	
(D) None of these	1
Section	1 - 8
8. (i) Define Network Topology. Ex	xplain Star Topology.
Or	
Define Cyber Bullying. What	are its preventive measures?
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8.

(ii)	Write down a note on Safe Social Networking.	3
(iii)	Describe the use of Modem.	2
(iv)	In networking LAN stands for	1

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