

## **Model Question Paper**

## For Kashmir Division 2010 Regular Exam Only

Roll	No	0.							•		•	

Subject

### **COMPUTER SCIENCE**

### Maximum Marks --- 50

Time Allowed – 3 Hours (Fifteen Minutes Extra to read the question paper)

Do questions from Part A or Part B or from both Part A and B Part of maximum 50 marks as per your preparation.

Part A

#### SECTION-A

#### (Long Answer Type Questions)

1. Define Control statement. Write a program in C++ to find the greatest of three numbers using if construct.

Or

Define and explain Data Encapsulation and Polymorphism.

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2. What is a Structure? How is it different from an Array?

Or

Write a C++ program, declaring and defining a structure for displaying students Record—Name, Roll No. and Marks.

3. Give the importance of Constructors and Destructors.

P. T. O.

Or

	Define and explain the following:	
	(i) Default constructor	
	(ii) Copy constructor.	7
4.	Explain Dynamic Memory Allocation with reference to C++.	
	Or	
	Explain NULL pointer and this pointer giving suitable examples.	7
	SECTION—B	
	(Short Answer Type Questions)	
5.	Explain Logical Operators.	9
6.	Give the explaination of Inline function.	3
7.	What do you mean by Inheritance ?	3
8.	Give the significance of Private and Public member functions.	3
9.	Explain Function overloading.	3
	SECTION—C	
	(Very Short Answer Type Questions)	
10.	Name one header file for a C++ program.	1
11.	How an object is created in C++ program ? (Write in one line).	1
12.	Name the function which can not be inherited.	1
13.	Write a C++ statement for declaring a String variable.	1
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# SECTION—D

# (Objective Type Questions)

14.			the most appropriate/correct answer of the following questions among following and write them in your Answer-book:	our
	give	on a	iternatives and write them in your Answer-book.	
	(i)		function is automatically involved by the complier.	1
	(ii)	An	infinite Loop is a Loop that	
		A.	Never ends	
		В.	Ends immediately	
		С.	Stops the execution of a program	
		D.	None of the above.	1
	(iii)	Wh	en a Subclass is the Baseclass of another class, it is known as	
		A.	Multiple inheritance	
		В.	Multilevel inheritance	
		С.	Hybrid inheritance	
		D.	None of the above.	1

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### Part B

#### SECTION-A

### (Long Answer Type Questions)

1. Explain the concept of 2-D array? How are they represented in Memory?

Or

Write a program to multiply two 2-D arrays.

2. Explain the concept of Stack. Give its application.

Or

Write a program to implement circular Queue using array.

- 3. Explain with syntax and example:
  - (i) open()

P. T. O.

7

	(ii) close()							
	(iii) read( )							
	(iv) write().							
	Or							
	What is a Header file ? Give detailed description about fstream.h.	7						
4.	What is Full adder and Half adder? Design the circuit for Full adder.							
	Or							
	What is Karnaugh Map and how it can be used for minimization of Boolea expressions?	an 7						
	SECTION—B							
	(Short Answer Type Questions)							
5.	Explain XNOR gate with truth table.	3						
6.	Explain the following SQL functions:							
	(i) SUM ( )							
	(ii) Count ( ).	3						
7.	Write SQL command to create student table with the following information :							
	Roll No., Name, Class, Marks.	3						
8.	Explain the concept of Firewall.	3						
9.	What is a Linked list? Explain.	3						
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## SECTION—C

# (Very Short Answer Type Questions)

10.	What is Polish Notation?	1
11.	Give one drawback of Star Topology.	1
12.	Give one difference between Singly and Doubly Link list.	1
13.	Define a Tuple.	1
	SECTION—D	
	(Multiple Choice Type Questions)	
14.	Choose the most appropriate/correct answer of the following questions amongiven alternatives and write them in your Answer-book:	ng four
	(i) Array index starts from	
	A. 1	
	B. 0	
	C. $-1$ .	1
	(ii) Which of the following is a language?	
	A. HTTP	
	B. DHTML	
	C. TCP:	- 1
	(iii) The concept of Normalization was given by	
	A. Boehm	
	B. E.F. Codd	
	C. Dennis Ritchie.	1

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