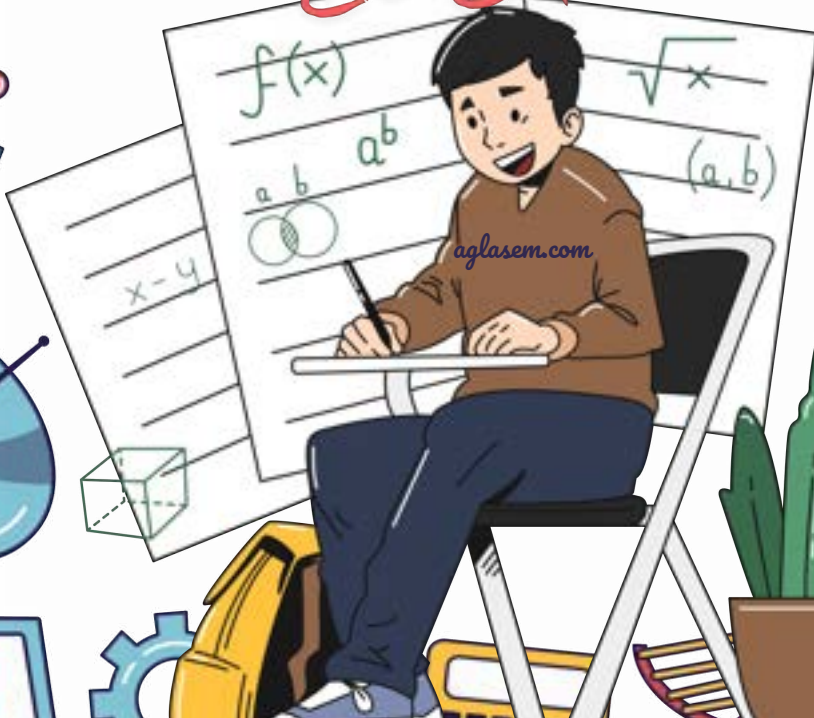




JKBOSE QUESTION PAPERS

Jammu & Kashmir Board of School Education

2024



B-23-Z

Roll No.

Total No. of Questions : 8]

[Total No. of Printed Pages : 7

12thARM(SZ)JKUT2024
1123-Z
COMPUTER SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

SECTION-I

1. (i) Explain the following terms with examples :



(a) Class

(b) Object

(c) Data encapsulation

Or

Discuss the advantages of Object Oriented Programming.

4

(ii) Explain the significant role of scope resolution operator

in C++.

3

(iii) Explain, giving suitable examples, how member functions can

be defined outside the class ?

3

(iv) What is Data Encapsulation ?

2

(v) How do objects communicate with one another by sending and

receiving data ?

(True/False)

1

(vi) Which operator can be used to define a function outside the

class ?

(A) ::

(B) :

(C) →

(D) *

1

(vii) In C++, function overloading is a type of polymorphism.

(True/False) 1

SECTION-2

2. (i) What is a constructor ? Illustrate the concept of constructor overloading in C++. 3
- (ii) Constructors do not have return type not even void.
(True/False) 1
- (iii) Can constructors in C++ be declared as private within a class ?
(True/False) 1

SECTION-3

3. (i) Discuss multiple inheritance in C++. 3
- (ii) By default, members of a class in C++ are private.
(True/False) 1
- (iii) Function overloading is an example of early binding.
(True/False) 1

SECTION-4

4. (i) What is a pointer in C++ ? Provide a brief description of its purpose and state how it differs from regular variables ? 3

(ii) It is not permitted to decrement a pointer by a non-integer value.

(True/False) 1

(iii) The operator used to access the value pointed to by a pointer is :

(A) &

(B) :

(C) *

(D) →



1

SECTION-5

5. (i) Giving algorithms, describe the push and pop operations.

Or

Explain enqueue with the help of an example.

4

(ii) Explain the Bubble Sort algorithm.

3

(iii) Explain briefly string constant.

2

(ix) Which operation adds an element to the top of the stack ?

(A) Pop

(B) Push

(C) Enqueue

(D) Dequeue

1

SECTION-6

6. (x) Give detailed description about Relational Data Model.



Or

What is a key ? Describe various types of keys in context with SQL.

4

(ii) Describe the number, char and date data types of SQL.

3

(iii) Giving syntax, describe the use of DROP command in SQL.

2

(iv) UPDATE is a DML command.

(True/False) 1

SECTION-7

7. (i) Explain the function of a NOR gate.

Or

State and explain, giving truth table, the DeMorgan's laws.

4

- (ii) Write and explain NAND gate.

3

- (iii) Describe operation of a NOT gate.

2

- (iv) If $A = 1$, $B = 1$ and $C = 0$ are three inputs of an AND gate, then its output $Y = A.B.C$ will be :

(A) 110

(B) 0

(C) 1

(D) 001

SECTION-8

8. (i) What is Network Topology ? Explain STAR network topology.

Or

Describe optical fibre with its advantages and disadvantages.

4

- (ii) What is Cyber Bullying ? What measures can be taken for its prevention ?

3

- (iii) Explain briefly phishing.

2

- (iv) Why is it essential to remain mindful of online friend requests from unknown individuals ?

1



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