Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_B/Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 1 OS used: Windows Browser used: Chrome

Test Duration: 00:19:27 Test Start Time: May 11, 2022 | 03:44 PM

Test Submit Time: May 11, 2022 | 04:04 PM

Download





Rank: NA

Topper score: 20.00 / 20 **Average score:** 17.61 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score:** 18.01 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 17

Question Wrong: 3

Partially Correct: 0

Question Not Viewed: 0



Questions Attempted: 20

Questions Correct: 17

Question Wrong: 3

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

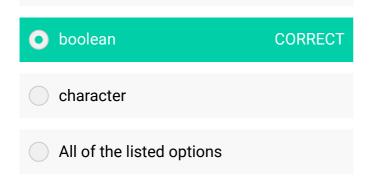
Multi Choice Type Question

Report Error

What are the parts of the literal constants?

integer numerals

floating-point numerals	3			
strings and boolean va	lues			
All of the listed options	CORRECT			
Status: Correct Mark Question type: MCQ Single Subject: Variables and Cor	e Correct Subject:		-	•
Show solution				
Question No: 2	Multi Choice T	ype Question		Report Error
Pick the right option Statement 1:A definition is a Statement 2:An identifier ca		once.		
Statement 1 is true, Sta	atement 2 is false.			
Statement 2 is true, Statement 1 is false.	CORRECT			
Both are false.				
Both are true.				
Recommended Learning Co	ontent: Feedback	1 Feedback	1	
Status: Correct Mark Question type: MCQ Single Subject: Input and Output S	e Correct Subject:	lints used : 0 Programming S	Level: Me Subject: C++ Pr	
Show solution				
Question No: 3	Multi Choice T	ype Question		Report Error
Which type is best suited to	represent the logic	al values?		
integer				



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

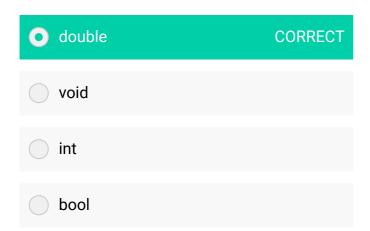
Subject: Data Types Blooms Taxonomy: Understand

Show solution

Question No: 4 Multi Choice Type Question

Report Error

The value 132.54 can represented using which data type?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Data Types

Show solution

Question No: 5 Multi Choice Type Question

Report Error

When a language has the capability to produce new data type mean, it can be called as

overloadedextensibleCORRECT

encapsulated				
reprehensible				
Status: Correct Ma Question type: MCQ Sing Subject: Data Types	rk obtained: 1/1 I le Correct Subject:		Level: Ea	
Show solution				
Question No: 6	Multi Choice	Гуре Question		Report Error
Which of the following stat	ements are false?			
bool can have two va used to express logic				
bool cannot be used a type of the result of the function.				
bool can be converted implicitly	d into integers			
a bool value can be u expressions.	sed in arithemetic			
Status: Correct Ma	rk obtained: 1/1	Hints used: 0	Level: M	edium
Question type: MCQ Sing Subject: Functions	le Correct Subject:	Programming	Subject: C++ P	rogramming
Show solution				
Question No: 7	Multi Choice	Гуре Question		Report Error
Regarding following staten const int a = 100;	nent which of the sta	atements is true	e?	
Declares a variable a initial value	with 100 as its			

Declares a construction a with 100 as its initial value Declares a constant a whose **CORRECT** value will be 100 Constructs an integer type variable with a as identifier and 100 as value Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming **Subject**: Variables and Constants Show solution Question No: 8 **Multi Choice Type Question Report Error** The difference between x and 'x' is The first one refers to a variable whose identifier is x **CORRECT** and the second one refers to the character constant x The first one is a character constant x and second one is the string literal x Both are same None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Variables and Constants Blooms Taxonomy: Understand **Question No: 9** Multi Choice Type Question Report Error A sequence of instructions or statements is termed as

CORRECT

programs

problem statement		SKCT	
snippet			
None of the listed options	S		
Recommended Learning Con	tent: Feedback	Feedback 1	
Status: Correct Mark of Question type: MCQ Single Consults Subject: Input and Output States	-	Programming Sub	
Question No: 10	Multi Choice	Type Question	Report Error
Which among the following are	e the naming cor	entions for identif	iers?
Only alphabetic characters digits and underscores are permitted.			
First letter must be an alphabet or underscore (_)) CORRECT		
✓ Identifiers are case sensit	ive CORRECT		
Reserved keywords can no used as an identifier's nan	(,UKKE(,I		
Status: Correct Mark of Question type: MCQ Multiple Subject: C++ Programming Status Subject: Mark of M	-	t: Programming	Level: Easy
Question No: 11 Evaluate the following (false && true) false true	Multi Choice	Type Question	Report Error
•			

0

O 1	CORRECT
false	
None of the listed options	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Operators and Expressions Blooms Taxonomy: Analyse

Question No: 12

Multi Choice Type Question

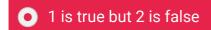
Report Error

Select the right option.

Given the variables p, q are of char type and r, s, t are of int type

1.
$$t = (r * s) / (r + s);$$

2.
$$t = (p * q) / (r + s);$$



1 is false and 2 is true

both 1 and 2 are true CORRECT

both 1 and 2 are false

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Operators and Expressions

Show solution

Question No: 13 Multi Choice Type Question

Report Error

What is the value of the following 8-bit integer after all statements are executed?

int x = 1;

x = x << 7;

x = x >> 7:

1-1127Implementation defined CORRECT

Recommended Learning Content: Feedback 1 Feedback 1

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Input and Output Statements

Show solution

Question No: 14 Multi Choice Type Question

Report Error

What will be the output of this program?

```
#include <iostream>
using namespace std;
int main()
{
   int a = 8;
   cout << "ANDing integer 'a' with 'true' :" << a && true;
   return 0;
}</pre>
```

- ANDing integer 'a' with 'true'
 :8

 CORRECT
- ANDing integer 'a' with 'true' :0
- ANDing integer 'a' with 'true' :1

None of the listed options

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Namespace Blooms Taxonomy: Analyse

Question No: 15 Multi Choice Type Question

Report Error

What will be the output of this program?

```
#include <iostream>
    using namespace std;
   int main()
 3
4
   {
        int i = 3;
 5
6
        int l = i / -2;
7
8
        int k = i \% -2;
9
10
        cout << 1 << k;
11
12
        return 0;
13
   }
14
```

compile time error



CORRECT

1-1

implementation defined

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Namespace Blooms Taxonomy: Analyse

Show solution

Question No: 16 Multi Choice Type Question

Report Error

What is this operator called ?:?

conditional	CORRECT
relational	
casting operator	
None of the listed options	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

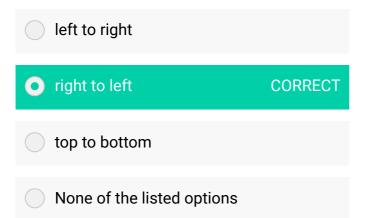
Subject: Operators and Expressions Blooms Taxonomy: Analyse

Show solution

Question No: 17 Multi Choice Type Question

Report Error

In which direction will the assignment operation take place?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

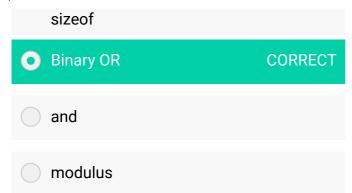
Subject: Operators and Expressions Blooms Taxonomy: Analyse

Show solution

Question No: 18 Multi Choice Type Question

Report Error

What is the name of | operator?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Operators and Expressions Blooms Taxonomy: Analyse

Show solution

Question No: 19 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
   using namespace std;
   int main()
 3
   {
4
5
        int a = 21;
6
        int c;
7
8
        c = a++;
9
10
        cout << c;</pre>
11
12
        return 0;
13
14 }
```



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Operators and Expressions Blooms Taxonomy: Analyse

Show solution

Question No: 20 Multi Choice Type Question

Report Error

Evaluate !(1 && !(0 || 1)).



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Operators and Expressions

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_C(Course: 2021_25 II_Dat

Attempt 1

Browser used: Chrome

Test Duration: 00:26:48 Test Start Time: May 14, 2022 | 08:10 PM

Test Submit Time: May 15, 2022 | 12:52 AM Resume Count: 3

Download

Overall score

Rank: NA **Topper score**: 20.00 / 20 **Average score:** 19.22 / 20 Least score: 0.00 / 20

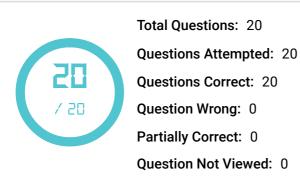
MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 19.50 / 20 Least score: 6.00 / 20

Overall Question Status



MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20 Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

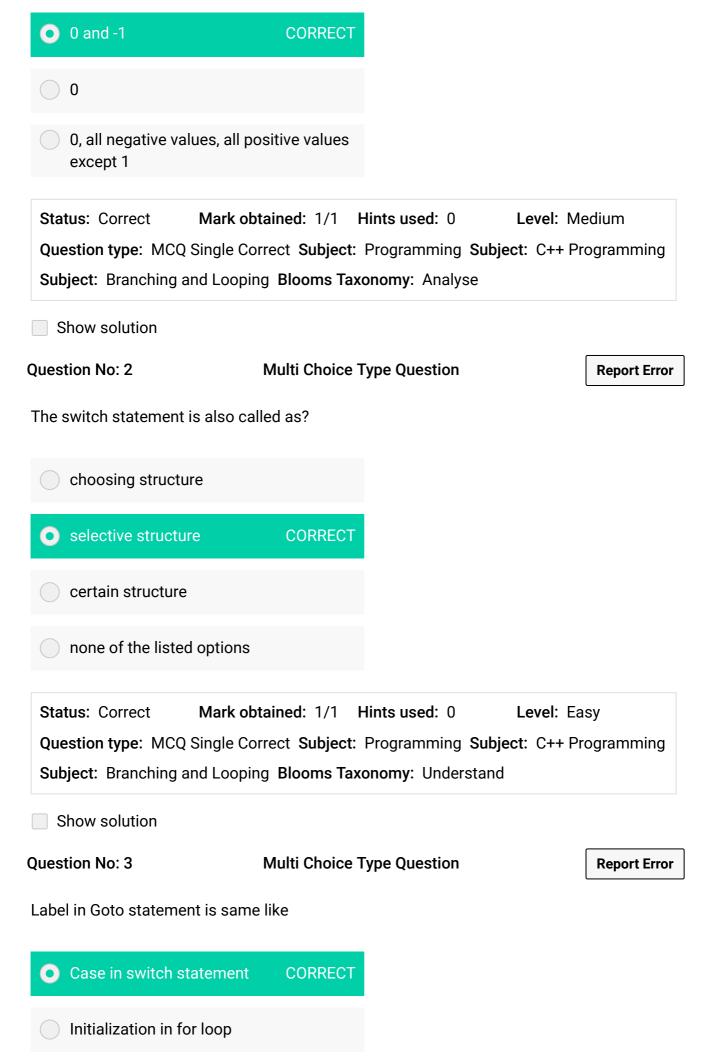
Question No: 1

Multi Choice Type Question

Report Error

For what values of the expression is an if-statement block not executed?

0 and all negative values



Continuation condition in for loop

All of them

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Question No: 4

Multi Choice Type Question

Report Error

An if statement may contain compound statements only in the else class.



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

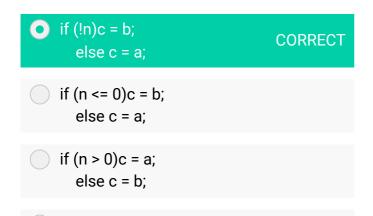
Question No: 5 Multi Choice Type Question

Report Error

Comment on the following expression?

$$c = (n) ? a : b;$$

can be rewritten as



All of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Question No: 6

Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
void func(int a, bool flag = true)
{
  if (flag == true ) {
    cout << "Flag is true. a = " << a;
}
  else {
    cout << "Flag is false. a = " << a;
}
}
int main()
{
  func(200, false);
  return 0;
}</pre>
```

Flag is true. a = 200

Flag is false. a = 100

Flag is false. a = 200 CORRECT

Flag is true. a = 100

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Show solution

Question No: 7

Multi Choice Type Question

Report Error

What will the below code return?

```
#include <iostream>
    using namespace std;
    int main()
 3
 4
    {
 5
         int i = 3;
 6
         switch (i)
 7
             case 0+1: cout<<"Hello";</pre>
 8
 9
                       break;
             case 1+2: cout<<"World";</pre>
10
11
                       break;
             default: cout<<"Hello World";</pre>
12
13
         return 0;
14
15
    }
```

WorldHello WorldCompiler errorRuntime error

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Show solution

Question No: 8 Multi Choice Type Question

Report Error

```
What does the following code display?

#include<iostream>
using namespace std;
int N = 10;

int main()
{
```

```
9  static int x = 1;
10  if (cout << x << " " && x++ < N && main())
11  { }
12  return 0;
13 }</pre>
```

Compiler error

Runtime Error

0 12345678910

CORRECT

123456789

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

SKCT

Subject: Branching and Looping

Show solution

Question No: 9

Multi Choice Type Question

Report Error

```
What is the output of this program?
 2
 3
   #include <iostream>
   using namespace std;
 4
 5
    int main() {
        int a = 10;
 6
        if (a < 15)
 7
8
9
             time:
                 cout << a;</pre>
10
                 goto time;
11
12
        break;
13
        return 0;
14
   }
15
```

1010

10

infinitely print 10



compile time error

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Show solution

Question No: 10 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
int main ()
{
  int n;
  for (n = 5; n > 0; n--)
  {
    cout << n;
    if (n == 3)
    break;
}
return 0;
}</pre>
```

o 543	CORRECT
<u> </u>	
5432	
<u> </u>	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Show solution

Question No: 11

Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
int main()
{
  int i;
  for (i = 0; i < 10; i++);
  {
   cout << i;
  }
  return 0;
}</pre>
```

0123456789



10

CORRECT

012345678910

compile time error

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

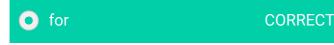
Show solution

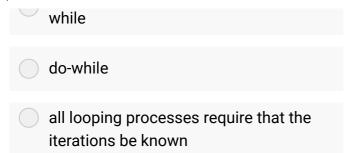
Question No: 12

Multi Choice Type Question

Report Error

Which looping process is best used when the number of iterations is known?





Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Question No: 13 Multi Choice Type Question

Report Error

C++ statements that allow programmers to specify that next statement to be executed may be other than the next one in a sequence, is called as



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping Blooms Taxonomy: Analyse

Question No: 14 Multi Choice Type Question

Report Error

Which keyword is used to come out of a loop only for that iteration?

o break	CORRECT
continue	
return	

ng
rror
ng
rror

if();

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Question No: 17 Multi Choice Type Question

Report Error

Can a 'for' loop contain another 'for' loop?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Question No: 18 Multi Choice Type Question

Report Error

A 'while' loop may always be converted to an equivalent 'for' loop.



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping

Question No: 19 Multi Choice Type Question

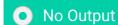
Report Error

What is the output of the below program?

```
#include <iostream>
using namespace std;
int main()
{
   int c = 5, no = 10;
   do {
      no /= c;
```

0

1



CORRECT

Compiler Error

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping Blooms Taxonomy: Analyse

Question No: 20 Multi Choice Type Question

Report Error

The correct syntax for running two variable for loop simultaneously is.

for
$$(i = 0; i < n; i++){}$$

for $(j = 0; j < n; j += 5){}$

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Branching and Looping Blooms Taxonomy: Analyse

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_AFCourse: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 35 OS used: Windows Browser used: Chrome

Test Duration: 00:36:31 **Test Start Time**: May 18, 2022 | 10:24 AM

Test Submit Time: May 18, 2022 | 11:01 AM

Download





Rank: NA

Topper score: 20.00 / 20 **Average score:** 18.56 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 18.71 / 20

Least score: 1.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 12

Question Wrong: 8

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 12

Question Wrong: 8

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

Multi Choice Type Question

Report Error

Data in an array can be distinguished using _____ number.



Reference



8/15/22

2, 3:26 PM		SKCT		
Subscript	CORRECT			
Array				
Status: Correct Question type: MCQ : Subject: Arrays	Mark obtained : 1/1 F Single Correct Subject :		Level: Ea Subject: C++ Pr	
Question No: 2	Multi Choice T	ype Question		Report Error
What is the use of is_a	rray() function in C++?			
To check if a vari	able is array CORRECT			
To check if a varia	able is 1-D array type or			
To check if a varia	able is 2-D array type or			
To check if a variation type or not	able is 1-D or 2-D array			
Status: Correct	Mark obtained: 1/1	lints used: 0	Level : Ea	sy
Question type: MCQ s Subject: Arrays	Single Correct Subject:	Programming	Subject: C++ Pr	ogramming
Question No: 3	Multi Choice T	ype Question		Report Error
In general, the index of	f the first element in an a	ırray is		
• 0	CORRECT			

2

1 Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Arrays Question No: 4 Multi Choice Type Question **Report Error** Assuming int is of 4bytes, what is the size of int arr[15];? 15 11 19 **6**0 **CORRECT** Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Arrays **Question No: 5 Multi Choice Type Question Report Error** Elements in an array are accessed _____ randomly **CORRECT** sequentially exponentially

logarithmically

Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Arrays **Question No: 6 Multi Choice Type Question Report Error** What is the output of this program? #include<iostream> using namespace std; int main() { int array $[] = \{10, 20, 30\};$ cout << -2[array]; return 0; } -15 -30 **CORRECT** compile time error garbage value Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Arrays Blooms Taxonomy: Understand Show solution **Question No: 7 Multi Choice Type Question Report Error** Which of the following gives the memory address of the first element in array? array[0]; array[2];

array[1];



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 8

Multi Choice Type Question

Report Error

What will be the output of this program?

```
#include <iostream>
 2 using namespace std;
    int array1[] = {1200, 200, 2300, 1230, 1543};
   int array2[] = {12, 14, 16, 18, 20};
    int temp, result = 0;
    int main()
 6
 7
    {
8
        for (temp = 0; temp < 5; temp++)
9
            result += array1[temp];
10
11
        for (temp = 0; temp < 4; temp++)
12
13
        result += array2[temp];
14
15
        cout << result;</pre>
16
```

6553



6533

CORRECT

6522

12200

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays Blooms Taxonomy: Analyse

Show solution

Question No: 9

Multi Choice Type Question

Report Error

Using array in a program is efficient because _____

It shortens the program.

The program compiles faster

Number of variables are reduced.

Data is accessed faster CORRECT

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 10

Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include <iostream>
   #include <string>
   using namespace std;
   int main()
 4
 5
        cout<<is array<int>::value;
 6
        cout<<is array<char[10]>::value;
 7
 8
        cout<<is_array<string>::value;
9
        return 0;
   }
10
```

O 010	CORRECT
<u> </u>	
O01	

TIU

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 11 Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include <iostream>
   #include <string>
   using namespace std;
   int main()
4
5
   {
        cout<<rank<int[10]>::value;
6
        cout<<rank<char[10][10]>::value;
7
        cout<<rank<string[10][10][10]>::value;
8
        return 0;
9
10
   }
```

111123CORRECT321

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

121

Question No: 12 Multi Choice Type Question

Report Error

Which of the following declaration are illegal?

(A) int a[][] = {{1, 2, 3}, {2, 3,	CORRECT
4, 5}};	CORRECT

- (C) int a[4][4] = {{1, 2, 3}, {2, 3, 4, 5}};
- (D) Both (A) and (B).

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 13 Multi Choice Type Question

Report Error

Consider the following declaration of a 'two-dimensional array in C: char a[100][100];

Assuming that the main memory is byte-addressable and that the array is stored starting from memory address 0, the address of a[40][50] is

• 4040	
4050	CORRECT
5040	
5050	

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Show solution

Question No: 14 Multi Choice Type Question

Report Error

Consider the statement

int val[2] $[4] = \{1, 2, 3, 4, 5, 6, 7, 8\}$;

4 will be the value of

val[0][3]	
• val[0][4]	
val[1][1]	
None of the listed options	CORRECT

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays Blooms Taxonomy: Understand

Question No: 15 Multi Choice Type Question

Report Error

If arr is a two dimensional array of 10 rows and 12 columns, then arr (5) logically points to the

sixth row	CORRECT
• Fifth row	
fifth column	
sixth column	

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 16 Multi Choice Type Question

Report Error

Which is true for a, if a is defined as "int a[10][20];"?

a is true two-dimensional array 200 int-sized locations have been set aside The conventional rectangular subscript calculation 20 * row + col is used to find the element a[row, col]. All of the listed options **CORRECT** Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Arrays **Blooms Taxonomy**: Understand Question No: 17 Multi Choice Type Question **Report Error** Which among the following 2D array declaration(s) is/are correct? (1) int array2D[2][4] = $\{1,2,3,4,5,6,7,8\}$; (2) int array2D[$[4] = \{1,2,3,4,5,6,7,8\}$; (3) int array2D[2][] = $\{1,2,3,4,5,6,7,8\}$; (4) int array2D[][] = {1,2,3,4,5,6,7,8}; 1 1,2 **CORRECT** 1,2,3 1,2,3,4 Mark obtained: 0/1 Hints used: 0 Status: Wrong Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 18 Multi Choice Type Question **Report Error**

Maximum number of elements in the array declaration int a[5][8] is

A 40	CORRECT
35	
32	
28	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

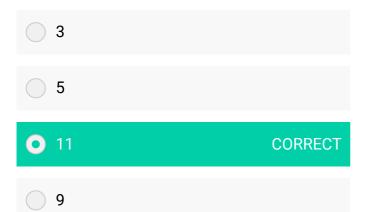
Subject: Arrays

Question No: 19 Multi Ch

Multi Choice Type Question

Report Error

int testarray[3][2][2] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12}; What value does testarray[2][1][0] in the sample code above contain?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Question No: 20 Multi Choice Type Question

Report Error

If array is of String type all values are _____ by default.

null	
Null	
O 0	
Nothing	CORRECT

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Arrays

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_S7Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 0 OS used: Windows Browser used: Chrome

Test Duration: 00:02:03 Test Start Time: May 21, 2022 | 02:51 PM

Test Submit Time: May 21, 2022 | 02:54 PM

Download





Rank: NA

Topper score: 20.00 / 20
Average score: 18.31 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score:** 18.51 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

Multi Choice Type Question

Report Error

How to declare a wide character in string literal?



CORRECT

l prefix				
W prefix				
none of the mention	oned			
	Mark obtained: 1/1 Fingle Correct Subject:		Level: Me	
Show solution				
Question No: 2	Multi Choice T	ype Question		Report Error
What is the output of thi	is program?			
#include <iostream> #include <cstring></cstring></iostream>				
using namespace std; int main ()				
{ char str1[10] = "Hello";				
char str2[10] = "World";				
char str3[10]; int len ;				
strcpy(str3, str1); strcat(str1, str2);				
len = strlen(str1);				
cout << len << endl; return 0;				
}				
5				
55				
<u> </u>				
O 10	CORRECT			

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Strings Show solution **Question No: 3 Multi Choice Type Question Report Error** What is the output of this program? #include <iostream> #include <string> using namespace std; int main () { string str ("microsoft"); string::reverse_iterator r; for (r = str.rbegin(); r < str.rend(); r++)cout << *r; return 0; } microsoft micro tfosorcim **CORRECT** tfos Mark obtained: 1/1 Hints used: 0 Level: Medium Status: Correct Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Strings Show solution **Question No: 4** Multi Choice Type Question **Report Error** What is the output of this program? #include <iostream> #include <string>

```
using namespace std;
int main ()
{
    string str ("Microsoft");
    for (size_t i = 0; i < str.length();)
    {
        cout << str.at(i-1);
    }
    return 0;
}

        M

        Microsoft

        runtime error

        CORRECT
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Show solution

Question No: 5 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <string>
using namespace std;
int main ()
{
  string str ("Ubuntu");
  cout << str.capacity();
  cout << str.max_size();
  return 0;
}</pre>
```

61073741820

154611686018427387903 CORRECT6 and max size depends on compilernone of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Show solution

Question No: 6

Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <string>
#include<typeinfo>
using namespace std;
int main()
{
try
string strg1("Test");
string strg2("ing");
strg1.append(strg2, 4, 2);
cout << strg1 << endl;
}
catch (exception &e)
{
cout << "Caught: " << e.what() << endl;
cout << "Type: " << typeid(e).name() << endl;</pre>
};
return 0;
}
```

```
out of rangebad type_id
```

bad allocation none of the mentioned Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Strings Show solution **Question No: 7** Multi Choice Type Question **Report Error** What is the output of this program? #include <iostream> #include <string> using namespace std; int main () { string mys; char mya[20]= "Hello world"; mys = mya; cout << mys << '\n'; return 0; } Hello world **CORRECT** Hello **Error** Runtime error Hints used: 0 Status: Correct Mark obtained: 1/1 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Strings Show solution

Question No: 8 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
      #include <string>
      using namespace std;
       int main ( )
   4
   5
      string name ("Jobs");
   6
      string family ("Steve");
   7
      name += " Apple ";
   9
      name += family;
      name += '\n';
  10
      cout << name;</pre>
  11
  12
      return 0;
  13
      }
  14
     Steve Jobs
     Apple
 Jobs Apple Steve
                                CORRECT
    None of the mentioned
                     Mark obtained: 1/1
                                        Hints used: 0
                                                            Level: Medium
 Status: Correct
 Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming
 Subject: Strings
   Show solution
                             Multi Choice Type Question
Question No: 9
                                                                       Report Error
```

What is the output of this program?

```
    #include <iostream>
    #include <string>
    using namespace std;
    int main ()
    {
    string str="Steve Jobs founded the apple";
    string str2 = str.substr (6, 4);
```

```
8. unsigned pos = str.find("the");
9. string str3 = str.substr (pos);
10. cout << str2 << ' ' << str3 << '\n';</li>
11. return 0;
12. }
```

O Jobs the apple	CORRECT
the apple	
Steve	
Jobs	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Show solution

Question No: 10 Multi Choice Type Question

Report Error

What is the output of this program?

- 1. #include <iostream>
- 2. #include <string>
- 3. using namespace std;
- 4. int main ()
- 5. {
- 6. string str ("Steve jobs");
- 7. cout << str.length();
- 8. return 0;
- 9.}

8

10 CORRECT

<u>12</u>		
9		
Status: Correct Mark obtained: Question type: MCQ Single Correct S Subject: Strings	,	/el : Medium C++ Programming
Show solution		
Question No: 11 Multi	Choice Type Question	Report Error
Which is true about function tolower?		
The function tolower is defined in		
Converts an upper case letter to lo	ower	
returns other characters untouche	ed	
None of the mentioned CO	PRRECT	
Status: Correct Mark obtained: Question type: MCQ Single Correct S Subject: Strings		vel: Easy C++ Programming
Question No: 12 Multi	Choice Type Question	Report Error
If the two strings are identical, then stro	cmp() function returns	
<u>-1</u>		
<u> </u>		
o 0 co	RRECT	

Yes

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Question No: 13 Multi Choice Type Question

Report Error

String operation such as strcat(s, t), strcmp(s, t), strcpy(s, t) and strlen(s) heavily rely upon.

Presence of NULL character CORRECT
Presence of new-line character
Presence of any escape sequence
None of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

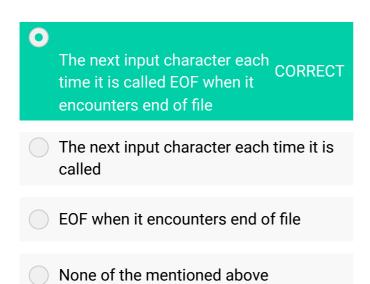
Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Question No: 14 Multi Choice Type Question

Report Error

What is the use of getchar()?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Question No: 15 Multi Choice Type Question

Report Error

The end of the string is marked with ____ special character.

• /0'	CORRECT
0	
any one of above	
none of the above	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Question No: 16 Multi Choice Type Question

Report Error

Which of the below functions is NOT declared in string.h?

strptr()	CORRECT
strcpy()	
strlen()	
strupr()	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Ch	OW	\sim	lıı+i,	\sim
ווכי	IC)VV	501		. JI

Question No: 17 Multi Choice Type Question

Report Error

Which of the following function is used to find the first occurrence of a given string in another string?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Question No: 18 Multi Choice Type Question

Report Error

A string is terminated by a



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Question No: 19

Multi Choice Type Question

Report Error

Which header file is used to manipulate the string?

iostream	
iomanip	
• string	CORRECT
container	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Show solution

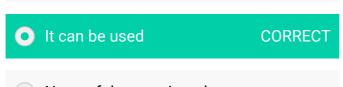
Question No: 20 Multi Choice Type Question

Report Error

What will happen if a string is empty?

It can't be created

Raises an error



None of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Strings

Show solution

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_P(Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 0 OS used: Windows Browser used: Chrome

Test Submit Time: May 21, 2022 | 02:56 PM

Download

Overall score



Rank: NA

Topper score: 20.00 / 20
Average score: 18.51 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 18.72 / 20

Least score: 5.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

1

Question No: 1

Multi Choice Type Question

Report Error

Choose the right option string* x, y;



x is a pointer to a string, y is a CORRECT string

y is a pointer to a string, x is a string	
both x and y are pointer to string types	
none of the listed options	
Status: Correct Mark obtained: 1/1 Hints used: 0 Level Question type: MCQ Single Correct Subject: Programming Subject: C Subject: Pointers Blooms Taxonomy: Understand	el: Easy ++ Programming
Show solution	
Question No: 2 Multi Choice Type Question	Report Error
Which one of the following is not a possible state for a pointer.	
hold the address of the specific object	
point one past the end of an object	
zero	
o point to a type CORRECT	
Status: Correct Mark obtained: 1/1 Hints used: 0 Leve	el: Medium
Question type: MCQ Single Correct Subject: Programming Subject: C Subject: Pointers	++ Programming
Show solution	
Question No: 3 Multi Choice Type Question	Report Error
Which of the following is illegal?	
int *ip;	
string s, *sp = 0;	

int i; double* dp = &i	CORRECT			
int *pi = 0;				
Status: Correct Mark Question type: MCQ Single Subject: Pointers	k obtained: 1/1 He Correct Subject:		Level: M Subject: C++ P	
Show solution				
Question No: 4	Multi Choice 1	ype Question		Report Error
What will happen in this cod int a = 100, b = 200; int *p = &a, *q = &b p = q;	e?			
b is assigned to a				
o p now points to b	CORRECT			
a is assigned to b				
q now points to a				
Status: Correct Mark Question type: MCQ Single Subject: Pointers	k obtained: 1/1		Level: M Subject: C++ P	
Show solution				
Question No: 5	Multi Choice 1	ype Question		Report Error
Identify the incorrect statem	nent			
reference is the alterna	ate name of the			

A reference value on		
defined cannot be re		
none of the listed op	otions	
Question type: MCQ Single	ark obtained: 1/1 Hints used: 0 gle Correct Subject: Programming Sulooms Taxonomy: Analyse	
Show solution		
Question No: 6	Multi Choice Type Question	Report Error
Void pointer can point to v	which type of objects?	
int		
float		
double		
• all of the mentioned	CORRECT	
	ark obtained: 1/1 Hints used: 0 gle Correct Subject: Programming Su	Level: Medium bject: C++ Programming
Show solution		
Question No: 7	Multi Choice Type Question	Report Error
When can the void pointer	being dereferenced?	
when it doesn't point	t to any value	
when it cast to anoth of object	ner type CORRECT	

using delete keywo	ra		
None of the listed of	ptions		
Question type: MCQ Sin	Mark obtained: 1/1 Ingle Correct Subject Blooms Taxonomy: A	t: Programming Տւ	Level: Medium ubject: C++ Programming
Show solution			
Question No: 8	Multi Choice	e Type Question	Report Error
What happens when a nu	ıll pointer is convert	ed into bool?	
An error is flagged			
bool value evaluate	s to true		
o bool value evaluate	s to false CORREC	Т	
the statement is igr	nored		
	Mark obtained : 1/1		Level: Medium Ibject: C++ Programming
Show solution			
Question No: 9	Multi Choice	e Type Question	Report Error
Suppose in a hypothetica return?	Il machine, the size	of char is 32 bits. W	hat would sizeof(char)
4			
O 1	CORREC	Т	
Implementation de	pendent		

8/15/22, 3:25 PM

SKCT Machine dependent Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Pointers Show solution **Question No: 10** Multi Choice Type Question **Report Error** Identify the incorrect statements. 1 int var = 10; 2 int *ptr = &(var + 1); //statement 1 3 int *ptr2 = &var; //statement 2 4 & var = 40;//statement 3 5 Statement 1 and 2 are wrong Statement 2 and 3 are wrong

Statement 1 and 3 are wrong CORRECT

All the three are wrong

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Show solution

Question No: 11

Multi Choice Type Question

Report Error

What does the following statement mean? int (*fp)(char*)

pointer to a pointer
 pointer to an array of chars
 pointer to function taking a char* argument and returns an int

function taking a char* argument and returning a pointer to int

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

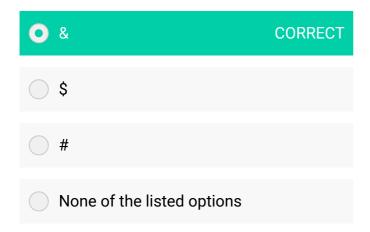
Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Question No: 12 Multi Choice Type Question

Report Error

Which reference modifier is used to define the reference variable?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers Blooms Taxonomy: Analyse

Question No: 13 Multi Choice Type Question

Report Error

Which of the following are member de-referencing operators in C++?

- 1. *
- 2. ::
- 3. ->*
- 4. ::*
- 5. ->
- Only 1,3, 5
- Only 2 and 3
- Only 3 and 4



Only 1,3, 4

CORRECT

Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Question No: 14

Multi Choice Type Question

Report Error

Predict the output of the following program?

```
#include <iostream>
 2 using namespace std;
   int main()
 3
 4
   {
       int a = 32, *ptr = &a;
 5
 6
       char ch = 'A', &cho = ch;
 7
       cho += a;
       *ptr += ch;
8
       cout << a << "," << ch << endl;</pre>
9
       return 0;
10
    }
11
12
13
```

32,A

32,a



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Show solution

Question No: 15 Multi Choice Type Question

Report Error

Predict the output of the below code.

```
#include <iostream>
   using namespace std;
   int main()
 4
   {
 5
        int a = 10, *pa, &ra;
 6
        pa = &a;
 7
        ra = a;
        cout << "a=" << ra;</pre>
8
        return 0;
9
10
   }
11
```

() 10

Garbage value



Compiler error

CORRECT

Run-time error

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Show solution

Question No: 16 Multi Choice Type Question **Report Error**

Predict the output of the below code.

```
#include <iostream>
   using namespace std;
    int main()
 3
4
 5
       const int i = 20;
       const int* const ptr = &i;
 6
       (*ptr)++;
 7
       int j = 15;
8
9
       ptr = &j;
       cout << i;</pre>
10
11
       return 0;
   }
12
13
```

20

21

22



Compiler Error

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Show solution

Question No: 17 Multi Choice Type Question

Report Error

The pointer which can point to any variable that is

const and static



const and volatile

CORRECT

const only None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Pointers Blooms Taxonomy: Analyse **Ouestion No: 18** Multi Choice Type Question **Report Error** What will be the output of the following program? #include <iostream> using namespace std; int main() { int arr $[] = \{4, 5, 6, 7\};$ int* p = (arr + 1);cout << *arr + 10; return 0; } 12 13 **CORRECT** 15 Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Pointers Show solution

https://skct892.examly.io/result?testId=U2FsdGVkX1%2FkEIOAmq%2BaV4B9AEW9ns7%2FxiDiGvE3Czf5OStLb9EFugJrmde2gDB2

Multi Choice Type Question

Question No: 19

Report Error

```
What is the output of the below code?
 2
   #include<iostream>
 3
   using namespace std;
 4
    int main()
 5
 6
 7
        int a = 10;
        int \&b = a;
8
9
        b++;
10
        cout<<a;
   }
11
12
```

10

O 11

CORRECT

- Garbage value
- Compile time error for invalid syntax

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Show solution

Question No: 20

Multi Choice Type Question

Report Error

```
1 Predict the output of the below code.
2
3 char *p = NULL;
4 int main()
5 {
    *p = 100;
7    cout<<*p;
8 }</pre>
```

NULL	
<u> </u>	
Run time error	CORRECT
Compile time error	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Pointers

Show solution

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_Fl Course: 2021_25 II_Dat

Attempt 1

IP Address: 49.37.136.246 Tab switches: 1 OS used: Windows Browser used: Chrome

Test Duration: 00:01:47 Test Start Time: May 24, 2022 | 06:51 AM

Test Submit Time: May 24, 2022 | 06:53 AM

Download





Rank: NA

Topper score: 20.00 / 20 **Average score:** 18.79 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score:** 19.03 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 1

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 1

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

Multi Choice Type Question

Report Error

What will happen when we use void in argument passing?



(A) It will not return value to its caller

CORRECT

(B) It will return value to its caller		
(C) both A & B are correct		
(D) none of the listed options		
Status: Correct Mark obtained: 1/1 Hi Question type: MCQ Single Correct Subject: P Subject: Functions Blooms Taxonomy: Ana		
Show solution		
Question No: 2 Multi Choice Ty	pe Question	Report Error
What are mandatory parts in a function declarati	ion?	
(A) return type,function name CORRECT		
(B) return type,function name,parameters		
(C) both A and B		
(D) none of the listed options		
Status: Correct Mark obtained: 1/1 Hi Question type: MCQ Single Correct Subject: P Subject: Functions Blooms Taxonomy: App	Programming Subject: C++ Pro	
Show solution		
Question No: 3 Multi Choice Ty	pe Question	Report Error
which of the following is used to terminate the fu	unction declaration?	
)		

O ;	CORRECT			
onone of the list	ed options			
	Mark obtained: 1/1 Q Single Correct Subject: Blooms Taxonomy: Ar	Programming		
Question No: 4	Multi Choice	Type Question		Report Error
Which is more effect	tive while calling the functi	ons?		
call by value				
o call by reference	ce CORRECT			
call by pointer				
onone of the list	ed options			
	Mark obtained: 1/1 Q Single Correct Subject: Blooms Taxonomy: Ar		Level: Me Subject: C++ Pr	
Show solution				
Question No: 5	Multi Choice	Type Question		Report Error
What is the scope of	the variable declared in th	ne user defined	function?	
(A) whole prog	ram			
(B) only inside	the {} block CORRECT			
(C) both A and	В			
(D) none of the	listed ontions			

Status: Correct Question type: MCQ Subject: Functions	Single Correct Subject:	Programming		
Show solution				
Question No: 6	Multi Choice T	ype Question		Report Error
How many ways of pas	ssing a parameter are the	ere in c++?		
<u> </u>				
<u> </u>				
o 3	CORRECT			
4				
Status: Correct Question type: MCQ Subject: Functions	Mark obtained: 1/1 F Single Correct Subject:		Level: E Subject: C++ F	-
Show solution				
Question No: 7	Multi Choice T	ype Question		Report Error
Which is used to keep	the call by reference valu	e intact?		
static				
o const	CORRECT			
absolute				
none of the listed				
none of the listed	options			

Hints used: 0

Mark obtained: 1/1

Status: Correct

Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Functions **Blooms Taxonomy:** Analyse Show solution Question No: 8 Multi Choice Type Question **Report Error** By default how the value is passed in c++? call by value **CORRECT** call by reference call by pointer none of the listed options Mark obtained: 0/1 Hints used: 0 Status: Wrong Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Functions Blooms Taxonomy: Apply Question No: 9 Multi Choice Type Question **Report Error** What will you use if you are not intended to get a return value? static const volatile void **CORRECT** Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Functions

8/15/22, 3:27 PM **SKCT** Show solution Question No: 10 **Multi Choice Type Question Report Error** Where does the return statement returns the execution of the program? main function caller function **CORRECT** same function none of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Functions Blooms Taxonomy: Analyse **Question No: 11 Multi Choice Type Question Report Error** What will happen while using pass by reference The values of those variables are passed to the function so that it can manipulate them The location of variable in

memory is passed to the function so that it can use the CORRECT same memory area for its processing The function declaration should contain ampersand (& in its type declaration)

All of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy 8/15/22, 3:27 PM

SKCT Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Functions Show solution Question No: 12 Multi Choice Type Question **Report Error** What are the advantages of passing arguments by reference? Changes to parameter values within the function also affect the original arguments. There is need to copy parameter values (i.e. less memory used) There is no need to call constructors for parameters (i.e. faster) All of the mentioned **CORRECT** Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Functions Question No: 13 Multi Choice Type Question **Report Error** Which value will it take when both user and default values are given? user value **CORRECT** default value custom value

none of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions Blooms Taxonomy: Apply

Show solution

Question No: 14 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
void copy (int& a, int& b, int& c)
{
    a *= 2;
    b *= 2;
    c *= 2;
}
int main ()
{
    int x = 1, y = 3, z = 7;
    copy (x, y, z);
    cout << "x =" << x << ", y =" << y << ", z =" << z;
    return 0;
}</pre>
```

2510

245

0 2614

CORRECT

none of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions Blooms Taxonomy: Analyse

Show solution

Question No: 15 Multi Choice Type Question

Report Error

What is the output of this program?

#include <iostream>

```
using namespace std;
void Sum(int a, int b, int & c)
{
a = b + c;
b = a + c;
c = a + b;
}
int main()
int x = 2, y = 3;
Sum(x, y, y);
cout << x << " " << y;
return 0;
}
     23
     69
 2 15
                                     CORRECT
     compile time error
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions

Show solution

Question No: 16 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
void square (int *x)
{
   *x = (*x + 1) * (*x);
}
int main ()
{
int num = 10;
```

```
square(&num);
cout << num;
return 0;
}

100

compile time error

144
```

110 CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions

Show solution

Question No: 17 Multi Choice Type Question

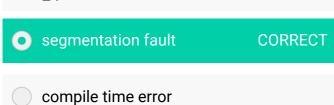
Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
long factorial (long a)
{
  if (a > 1)
  return (a * factorial (a + 1));
  else
  return (1);
}
int main ()
{
  long num = 3;
  cout << num << "! = " << factorial ( num );
  return 0;
}</pre>
```

6

24



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions

Show solution

Question No: 18 Multi Choice Type Question

Report Error

Predict the output of the following code.

```
#include <iostream>
   using namespace std;
   void fun1(int x)
 3
 4
 5
    cout<<x<<endl;
 6
   int main()
 7
 8
     //function calling
9
      fun1(10,20);
10
      return 0;
11
    }
12
13
```

10 20

10 20

Run Time error

O Compile time error

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions

Show solution

Question No: 19

Multi Choice Type Question

Report Error

Predict the output.

```
1 #include <iostream>
    using namespace std;
    void print_value(int x,int y=10)
 3
 4
 5
      cout<<x<<y<<endl;</pre>
    }
 6
   int main()
 7
 8
9
      print_value(100);
10
      return 0;
    }
11
12
```

O 100 10	CORRECT
100 100	
Compiler Error	
100 Garbage value	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions

Show solution

Question No: 20 Multi Choice Type Question

Report Error

What is the output of the following code?

```
#include<iostream>
using namespace std;
int fun(int x = 0, int y = 0, int z)

{
return (x + y + z):
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Functions

Runtime Error

Show solution

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_S7Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 2 OS used: Windows Browser used: Chrome

Test Duration: 00:03:50 Test Start Time: May 30, 2022 | 09:23 AM

Test Submit Time: May 30, 2022 | 09:28 AM

Download





Rank: NA

Topper score: 20.00 / 20
Average score: 18.29 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score:** 19.04 / 20

Least score: 7.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

Multi Choice Type Question

Report Error

In order to save memory during the execution of a complex program, use



structures



union	CORRECT
templates	
classes	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

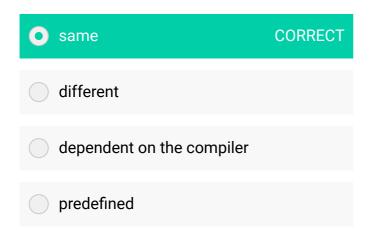
Subject: Structures and Unions

Question No: 2

Multi Choice Type Question

Report Error

All the addresses of union variables are



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 3 Multi Choice Type Question

Report Error

The keyword used to define a structure is

struct	CORRECT
structure	
structures	

str

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 4 Multi Choice Type Question

Report Error

Can a Structure contain pointer to itself?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 5 Multi Choice Type Question

Report Error

What is Self Referential Structure?

Structure which contains pointers

Structure which has pointer to itself

 Structure which contains another structure with a pointer

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions Blooms Taxonomy: Analyse

Question No: 6

Multi Choice Type Question

Report Error

Can we declare structure inside structure?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 7 Multi Choice Type Question

Report Error

Structure variables may be passed as arguments to functions



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 8 Multi Choice Type Question

Report Error

Which of the following accesses a variable in structure *b?

• b->var;	CORRECT
b.var;	
b-var;	
b>var;	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

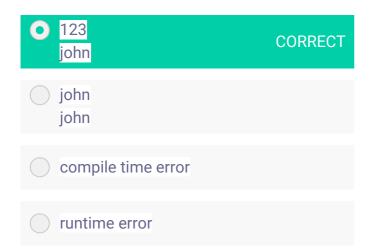
Subject: Structures and Unions

Question No: 9 Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
1 #include <iostream>
   #include <string.h>
    using namespace std;
    int main() {
 4
        struct student{
 5
 6
             int num;
 7
            char name[25];
 8
        };
9
        struct student stu;
        stu.num = 123;
10
        strcpy(stu.name, "john");
11
12
        cout << stu.num << endl;</pre>
        cout << stu.name << endl;</pre>
13
14
        return 0;
15
16 }
```



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 10 Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
through Time(
```

```
3 Struct IImel
        int hours, minutes, seconds;
   };
   int toSeconds(Time now);
 6
7
   int main() {
       Time t;
8
       t.hours = 5;
9
10
       t.minutes = 30;
       t.seconds = 45;
11
12
       cout << "Total seconds: " << toSeconds(t) << endl;</pre>
13
       return 0;
14
int toSeconds (Time now){
       return 3600 * now.hours + 60 * now.minutes + now.seconds;
16
```

1 9845	CORRECT
20000	
15000	
19844	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 11

Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
1 #include <iostream>
   using namespace std;
 2
 3
   struct sec
 4
   {
 5
        int a;
 6
       char b;
 7
   };
8
   int main()
9
       struct sec s =\{25,50\};
10
       struct sec *ps =(struct sec *)&s;
11
12
       cout << ps->a << ps->b;
       return 0;
13
   }
14
```

O 252	CORRECT
253	
254	
262	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Question No: 12

Multi Choice Type Question

Report Error

What will be the output of the below code

```
#include <iostream>
 2
    using namespace std;
   typedef struct s1 {
 3
            int a;
 4
 5
            float b;
            union g1 {
 6
 7
                 char c;
                 double d;
8
9
             } new2;
10
    } new1;
    int main()
11
12
        cout << sizeof(new1);</pre>
13
    }
14
```

17

O 16	CORRECT
8	
\bigcirc 0	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Show solution

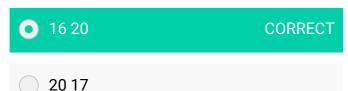
Question No: 13 Multi Choice Type Question

Report Error

Predict the output of the following code.

```
#include <iostream>
   using namespace std;
   typedef struct s1 {
 3
 4
            int a;
 5
            float b;
            union g1 {
 6
 7
                 double c;
 8
                 double d;
9
            } new2;
10
   } new1;
11
   int main()
12
        cout << sizeof(new1) << endl;</pre>
13
        new1 obj;
14
        obj.new2.d = 17;
15
        obj.new2.c = 20;
16
```

17 20



20 17

20 16

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Structures and Unions

Show solution

Question No: 14 Multi Choice Type Question

Report Error

Which one is always faster in writing on C++?

Writing to a file Writing to a memory **CORRECT** Reading from the network None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: File Handling Show solution **Question No: 15 Multi Choice Type Question Report Error** Which header file is used for reading and writing to a file? /include #include **CORRECT** &include None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: File Handling **Question No: 16 Multi Choice Type Question Report Error** What is the output of this program? #include <stdio.h> int main () FILE * p;

```
long size;
p = fopen ("test.txt", "rb");
if (p == NULL)
perror ("Error opening file");
else
{
fseek (p, 0, SEEK_END);
size = ftell (p);
fclose (p);
printf (" %ld\n", size);
}
return 0;
}
     10
     20
     5
 Depends upon the file
                                      CORRECT
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: File Handling

Show solution

Question No: 17 Multi Choice Type Question **Report Error**

What is the output of this program in the file?

```
#include <stdio.h>
int main ()
freopen ("myfile.txt", "w", stdout);
printf ("This sentence is redirected to a file");
fclose (stdout);
return 0;
}
```

This sentence This sentence is redirected This sentence is redirected a **CORRECT** file None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: File Handling

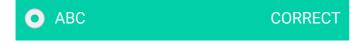
Show solution

Question No: 18 Multi Choice Type Question **Report Error**

What is the output of this program?

```
#include <stdio.h>
int main ()
{
int n;
FILE * p;
char buffer [5];
p = fopen ("myfile.txt", "w+");
for (n = 'A'; n <= 'D'; n++)
fputc (n, p);
rewind (p);
fread (buffer, 1, 5, p);
fclose (p);
buffer[3] = '\0';
puts (buffer);
return 0;
}
```

ABCD



ABCDE

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: File Handling

Show solution

Question No: 19 Multi Choice Type Question

Report Error

What is the output of this program in the text file?

```
#include <stdio.h>
int main ()
{
FILE * p;
char buffer[] = { 'x' , 'y' , 'z' };
p = fopen ( "myfile.txt" , "wb" );
fwrite (buffer , 1 , sizeof(buffer) , p );
fclose (p);
return 0;
}
```

o xyz	CORRECT
zyx	
yxz	
None of the listed options	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

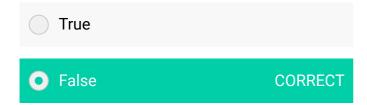
Subject: File Handling

Show solution

Question No: 20 Multi Choice Type Question

Report Error

It is not possible to combine two or more file opening mode in open () method.



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: File Handling

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_Cl Course: 2021_25 Il_Dat

Attempt 1

IP Address: 49.37.136.26 Tab switches: 2 OS used: Windows Browser used: Chrome

Test Submit Time: May 27, 2022 | 11:11 PM Resume Count: 1

Download

Overall score



Rank: NA

Topper score: 20.00 / 20
Average score: 18.97 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 19.13 / 20

Least score: 10.25 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 0

Partially Correct: 1

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 0

Partially Correct: 1

Question Not Viewed: 0

Topic wise Analysis

MCQ

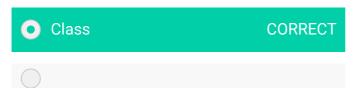


Question No: 1

Multi Choice Type Question

Report Error

A blueprint for any functional entity which defines its properties and its functions.



, 3:27 PM Function		SKCT	
Object			
Macro			
Status: Correct Mar Question type: MCQ Singl Subject: Classes and Object			el: Easy ++ Programming
Question No: 2	Multi Choice T	ype Question	Report Error
Allocation of memory to ob	jects at the time of t	their construction is know	n as
run time construction			
o dynamic construction	CORRECT		
initial construction			
static construction			
Status: Correct Mar Question type: MCQ Single Subject: Classes and Object	-		el: Medium ++ Programming
Question No: 3	Multi Choice T	ype Question	Report Error
For automatic objects, cons	structors and destru	ctors are called each time	the objects
enter and leave scope	e CORRECT		
inherit parent class			

are constructed

are destroyed

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 4

Multi Choice Type Question

Report Error

Is it mandatory to invoke/call a constructor for creating an object?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 5 Multi Choice Type Question

Report Error

Is it possible to define a constructor with default arguments?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 6 Multi Choice Type Question

Report Error

The explicit keyword is an optional decoration for the constructors that takes exactly

No argument

One Argument	CORRECT		
Two Arguments			
Three Arguments			
Status: Correct Question type: MCQ s Subject: Classes and	Mark obtained: 1/1 In Properties Single Correct Subject: Objects		
Question No: 7	Multi Choice 1	Type Question	Repo
A constructor that acce	epts no parameters is ca	lled as	
Default Construct	tor CORRECT		
Null Constructor			
Void Constructor			
Implicit Construct	tor		
Status: Correct Question type: MCQ Subject: Classes and	Mark obtained: 1/1 In the Single Correct Subject:		•
Question No: 8	Multi Choice 1	Type Question	Repo
How many constructor	rs can present in a class?	?	
<u> </u>			
<u> </u>			

multiple	CORRECT			
Status: Correct Ma Question type: MCQ Sing Subject: Classes and Ob	-			•
Show solution				
Question No: 9	Multi Choice	Гуре Question		Report Error
How to store the large obje	ects in c++ if it exten	ds its allocated	memory?	
o memory heap	CORRECT			
stack				
queue				
None of the listed op	tions			
Status: Correct Ma Question type: MCQ Sing Subject: Classes and Ob	gle Correct Subject:	Hints used: 0 Programming	Level : Ea Subject : C++ Pr	•
Question No: 10	Multi Choice	Type Question		Report Error
Pick out the other definitio	n of objects.			
member of the class				
associate of the clas	s			
attribute of the class				
• instance of the class	CORRECT			

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

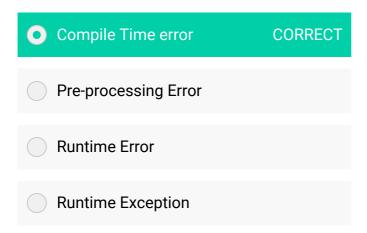
Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 11 Multi Choice Type Question

Report Error

What happens when a class with parameterized constructors and having no default constructor is used in a program and we create an object that needs a zero-argument constructor?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 12 Multi Choice Type Question

Report Error

Assume class TEST. Which of the following statements is/are responsible to invoke the copy constructor?

- 1. TEST T2(T1)
- 2. TEST T4 = T1
- 3. T2 = T1

Only 1 and 2	CODDECT
Only 2	
Only 1	

All of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 13 Multi Choice Type Question

Report Error

Destructor has the same name as the constructor and it is preceded by



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Multi Choice Type Question

Subject: Classes and Objects

Question No: 14

Report Error

```
Predict the output of following program?
   #include <iostream>
      using namespace std;
      class Test
   3
   4
   5
           private:
           int x;
   6
   7
           public:
           Test(int i)
   8
   9
  10
               x = i;
               cout << "Called" << endl;</pre>
  11
  12
  13
      };
      int main()
  14
  15
           Test t(20):
  16
```

Compiler Error	
• Called Called	CORRECT
Called	
Runtime Error	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

SKCT

Subject: Classes and Objects

Show solution

Question No: 15 Multi Choice Type Question

Report Error

What happens when the copy constructor is declared private?

- Objects cannot be created for that class
- Objects can be created but cannot be copied CORRECT
- The programs hits a compiler or a runtime error
- Objects can be created and used normally.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Question No: 16 Multi Choice Type Question

Report Error

Which of the following represent the differences between a copy constructor and an assignment operator?

Copy constructor allocates separate memory for the newly created target object and the assignment operator allocates same memory location to the newly created target object as well as source object.

A copy constructor is an overloaded contructor where as an assignment operator is a bitwise operator.

CORRECT

If you do not explicitly define a copy constructor then the compiler provides one. On the other hand, if you do not correct overload an assigment operator then a bitwise copy operation is performed.

A copy construcor is

Question No: 17

initialized whenever a new

object is initialized with an already existing object, when an object is passed to a function as a non refrence

✓ parameter, or when an object CORRECT is returned from a function.

On the other hand, an assignment operator is invoked only when an object is being assigned to another object.

Status: Partially correct Mark obtained: 0.25/1 Hints used: 0

Level: Medium Question type: MCQ Multiple Correct Subject: Programming

Subject: C++ Programming Subject: Classes and Objects

Multi Choice Type Question

Report Error

What is the output of the below code?

```
include <iostream>
 2
    using namespace std;
 3
 4
   class constructor
 5
        int a;
 6
 7
      public:
8
        constructor(int x)
9
10
            a = x;
11
12
13
        void display()
14
            cout<< "a: "<<a << endl;</pre>
15
        }
16
```

```
a: 10
a: 10
correct
a: 10
Compiler Error
Runtime Error
```

```
Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects
```

Show solution

Question No: 18 Multi Choice Type Question

Report Error

What does the following code result in?

```
#include<iostream>
 1
    using namespace std;
 2
 3
 4
   class Test
 5
   public:
 6
       Test(Test &t) { }
 7
       Test()
8
9
    };
10
    Test fun()
11
```

```
SKCT
   12 (
            cout << "fun() Called\n";</pre>
   13
   14
            Test t;
   15
            return t;
  16 }
    fun() Called
     Program works fine but no output is
     displayed
    Compiler error
                                 CORRECT
     Runtime error
 Status: Correct
                      Mark obtained: 1/1
                                           Hints used: 0
                                                               Level: Medium
 Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming
 Subject: Classes and Objects
Show solution
Ouestion No: 19
                               Multi Choice Type Question
                                                                          Report Error
Is it possible to take the address of a constructor?
     Yes
  No
                                 CORRECT
                      Mark obtained: 1/1 Hints used: 0
 Status: Correct
                                                               Level: Medium
 Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming
 Subject: Classes and Objects
Question No: 20
                               Multi Choice Type Question
                                                                          Report Error
The process of initializing through a copy constructor is known as
     copy process
```

copy registration

copy initialization

CORRECT

initialization process

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Classes and Objects

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_El Course: 2021_25 Il_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 0 OS used: Windows Browser used: Chrome

Test Duration: 00:01:13 Test Start Time: May 28, 2022 | 11:18 AM

Test Submit Time: May 28, 2022 | 11:20 AM

Download

Overall score



Rank: NA

Topper score: 20.00 / 20 **Average score:** 18.98 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score:** 19.23 / 20

Least score: 4.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0



MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

Question No: 1

Multi Choice Type Question

Report Error

Fill in the blanks: The ____ access modifier allows access to everything the ____ access modifier does and more.



protected, public

protected, package-private CORRECT

private, package-private

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: Java Programming Subject: Encapsulation

Question No: 2 Multi Choice Type Question Report Error

Which of the following statements is not true?

- An instance of one class may access an instance of another class's attributes if it has a reference to the instance and the attributes are declared public.
- An instance of one class may access package-private attributes in a parent class, CORRECT provided the parent class is not in the same package.
- Two instances of the same class may access each other's private attributes.
- An instance of one class may access an instance of another class's attributes if both classes are located in the same package and marked protected.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Encapsulation

Question No: 3

Multi Choice Type Question Report Error

Which of the following is a true statement about passing data to a method?

A change made to a primitive value passed to a method is reflected in the calling method.

• A change made to the data within an object passed to a method is reflected in the calling method.

CORRECT

Reassigning an object reference passed to a method is reflected in the calling method.

A change made to a boolean value passed to a method is reflected in the calling method.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Encapsulation

Question No: 4 Multi Choice Type Question

Report Error

How many lines of code would need to be removed for the following class to compile?

```
package work;
   public class Week
2
 3
        private static final String monday;
4
5
        String tuesday;
        final static wednesday = 3;
6
        final protected int thursday = 4;
7
8
    }
9
10
```

One

TwoThreeCORRECTThe code will not compile regardless of

the number of lines removed.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Encapsulation

Question No: 5 Multi Choice Type Question

Report Error

Which statement about a no-argument constructor is true?

- The Java compiler will always insert a default no-argument constructor if you do not define a no-argument constructor in your class.
- In order for a class to call super() in one of its constructors, its parent class must explicitly implement a no-argument constructor.
- If a class extends another class that has only one constructor that takes a value, then the child class must explicitly declare at least one constructor.

CORRECT

A class may contain more than one noargument constructor.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Encapsulation

Question No: 6 Multi Choice Type Question

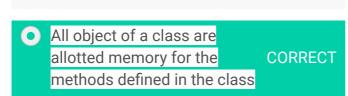
Report Error

Which of these statement is incorrect?

All object of a class are allotted memory
for the all the variables defined in the
class

If a function is defined public it can be accessed by object of other class by inheritation

main() method must be made public



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Encapsulation

Show solution

Question No: 7 Multi Choice Type Question

Report Error

Which of the following is not a reason to use encapsulation when designing a class?

_ F	Promote usability	by	other	devel	opers.
-----	-------------------	----	-------	-------	--------

Maintain class data integrity of data elements.

Prevent users from modifying the internal attributes of a class.

Increase concurrency and improve performance.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Encapsulation

Question No: 8

Multi Choice Type Question

Report Error

Abstract class cannot have a constructor.

True

• False

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct **Subject:** Programming **Subject:** Abstract and Interface

Question No: 9 Multi Choice Type Question

Report Error

Which of the following is not an attribute common to both abstract classes and interfaces?

- They both can contain static variables.
- They both can contain default methods.
 - They both can contain static methods.
- They both can contain abstract methods.

Status: Correct Mark obtained: 1/1 Hints used: 0

Question type: MCQ Single Correct Subject: Programming

Subject: Java Programming Subject: Inheritance

Question No: 10 Multi Choice Type Question

Report Error

Level: Easy

Which of the following is used to make an Abstract class?

Making atleast one member function as pure virtual CORRECT function

Making atleast one member function as virtual function Declaring as Abstract class using virtual keyword						
Declaring as Abstract class using static keyword						
Status: Correct Mark obtained: 1/1 Hints used: 0 Question type: MCQ Single Correct Subject: Programming Subject: Java Programming Subject: Abstract and Interface	Level: Eas	зу				
Question No: 11 Multi Choice Type Question		Report Error				
Which is also called as abstract class?						
virtual function						
o pure virtual function CORRECT						
derived class						
None of the mentioned						
Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Classes and Objects						
Show solution						
Question No: 12 Multi Choice Type Question		Report Error				
Which feature of OOP is indicated by the following code?						
<pre>1 class student{ int marks; }; 2 class topper:public student{ int age; topper</pre>	'(int age){ t	his.age=ag				

Polymorphism Inheritance and polymorphism
Inheritance

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 13 Multi Choice Type Question

Report Error

Find which of the following uses encapsulation?

- void main(){ int a; void fun(int a=10; cout<<a); fun(); }</pre>
- class student{ int a; public: int b;};
- class student{int a; public: void disp(){ cout<<a;} };</pre>
 CORRECT
- struct topper{ char name[10]; public : int
 marks; }

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 14 Multi Choice Type Question Report Error

Find which of the following	uses enca	psulation?
-----------------------------	-----------	------------

void main(){ int a; void fun(int a=10; cout<<a); fun(); }</pre>

class student{ int a; public: int b;};

class student{int a; public: void disp(){ cout<<a;} };</pre>
CORRECT

struct topper{ char name[10]; public : int
 marks; }

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts Blooms Taxonomy: Analyse

Question No: 15 Multi Choice Type Question

Report Error

How can Encapsulation be achieved?

Using Access Specifiers	CORRECT
Using only private members	
Using inheritance	
Using Abstraction	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts Blooms Taxonomy: Analyse

Question No: 16 Multi Choice Type Question Report Error

Using encapsulation data security is _____

Not ensured		
Ensured to some extent COR	RECT	
Purely ensured		
Very low		
Status: Correct Mark obtained: Question type: MCQ Single Correct Sulsubject: Object Oriented Concepts Blo	bject: Programming Subject:	evel: Easy : C++ Programming
Question No: 17 Multi C	hoice Type Question	Report Error
Which among the following violates the p	orinciple of encapsulation alm	ost always?
Local variables		
Global variablesCOR	RECT	
Public variables		
Array variables		
Status: Correct Mark obtained: 7 Question type: MCQ Single Correct Sulpication Concepts Blooms Subject: Object Oriented Concepts Blooms	bject: Programming Subject:	evel: Easy C++ Programming
Question No: 18 Multi C	choice Type Question	Report Error
Hiding the complexity is known as		
Abstraction		

Encapsulation	CORRECT
O Data Hiding	
Composition	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts Blooms Taxonomy: Analyse

Question No: 19

Multi Choice Type Question

Report Error

Consider the code and select the wrong choice.

- This maintains encapsulation CORRECT
- This code doesn't maintain encapsulation
- This code is vulnerable
- This code gives error

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts Blooms Taxonomy: Analyse

Question No: 20

Multi Choice Type Question

Report Error

While using encapsulation, which among the following is possible?

Code modification can be an additional overhead

 Data member's data type can be changed without changing CORRECT any other code

Data member's type can't be changed, or whole code have to be changed

Member functions can be used to change the data type of data members

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts Blooms Taxonomy: Analyse

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_INCourse: 2021_25 II_Dat

Attempt 1

IP Address: 49.37.136.26 Tab switches: 2 OS used: Windows Browser used: Chrome

Test Submit Time: May 27, 2022 | 11:19 PM Resume Count: 1

Download

Overall score



Rank: NA

Topper score: 20.00 / 20
Average score: 19.10 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 19.32 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 1

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 1

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

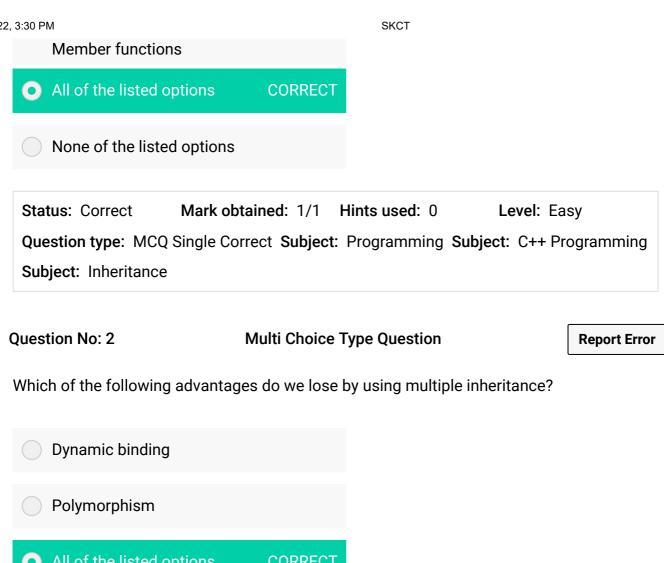
Multi Choice Type Question

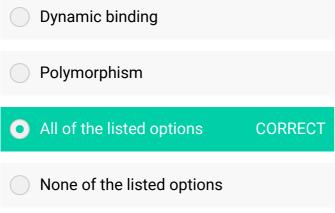
Report Error

Which of the following can the derived class inherit?

Data members

8/15/22, 3:30 PM





Hints used: 0 Status: Correct Mark obtained: 1/1 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Inheritance

Show solution

Question No: 3 **Multi Choice Type Question**

Report Error

How many basic types of inheritance are provided as OOP feature?



Hints used: 0 Status: Correct Mark obtained: 1/1 Level: Hard Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Inheritance **Question No: 4** Multi Choice Type Question **Report Error** Which among the following best defines single level inheritance? A class inheriting a derived class A class inheriting a base **CORRECT** class A class inheriting a nested class A class which gets inherited by 2 classes Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Inheritance Question No: 5 Multi Choice Type Question **Report Error** Which among the following is correct for multiple inheritance? class student{public: int marks;}s; class stream{int **CORRECT** total;}; class topper:public student, public stream{ }; class student{int marks;}; class stream{ }; class topper: public student{ }; class student{int marks;}; class

stream:public student{ };

class student{ }; class stream{ }; class
topper{ };

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Question No: 6 Multi Choice Type Question

Report Error

Which is the correct syntax of inheritance?

- class derived_classname :
 base_classname{ /*define class body*/
 };
- class base_classname :
 derived_classname{ /*define class
 body*/ };
- class base_classname :access
 derived_classname{ /*define class
 body*/ };

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Question No: 7 Multi Choice Type Question

Report Error

Which access type data gets derived as private member in derived class?

Private	CORRECT
Public	
Protected	

Both protected	and private		
Status: Correct Question type: MCC Subject: Inheritance	Q Single Correct Subject		Level: Hard Subject: C++ Programming
Question No: 8 Members which are r	Multi Choice	Type Question	Report Erro
Public members	S		
Protected mem	bers		
O Private member	rs CORREC ⁻		
Private or Prote	cted members		
Status: Correct Question type: MCC Subject: Inheritance			Level: Medium Subject: C++ Programming
Question No: 9	Multi Choice	Type Question	Report Erro
While inheriting a cla true?	ss, if no access mode is	specified, then w	vhich among the following is
It gets inherited	publicly by default		
It gets inherited	protected by default		
It gets inherited default	privately by CORREC		
It is not possible	e		

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

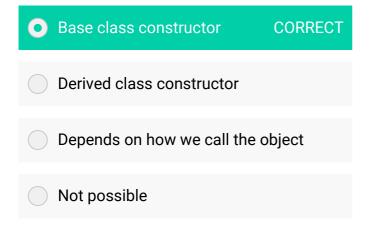
Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Question No: 10 Multi Choice Type Question

Report Error

If a derived class object is created, which constructor is called first?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Multi Choice Type Question

Subject: Inheritance

Question No: 11

What is the output of this program?

Report Error

```
#include <iostream>
using namespace std;
class A
{
  public:
  A(int n )
  {
  cout << n;
  }
  };
  class B: public A
  {
  public:</pre>
```

B(int n, double d)

: A(n)

```
cout << d;
}
};
class C: public B
{
public:
C(int n, double d, char ch)
: B(n, d)
{
cout <<ch;
}
};
int main()
C c(5, 4.3, 'R');
return 0;
}
```

• 54.3R	CORRECT
R4.35	
4.3R5	
None of the listed options	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 12 Multi Choice Type Question

Report Error

```
#include <iostream>
using namespace std;
class Base
{
public:
```

```
int m;
Base(int n=0)
: m(n)
{
cout << "Base" << endl;
}
};
class Derived: public Base
public:
double d;
Derived(double de = 0.0)
: d(de)
{
cout << "Derived" << endl;
}
};
int main()
{
cout << "Instantiating Base" << endl;
Base cBase;
cout << "Instantiating Derived" << endl;
Derived cDerived;
return 0;
}
     Instantiating Base
     Base
     Instantiating Derived
                                    CORRECT
     Base
     Derived
 Instantiating Base
     Instantiating Derived
     Base
     Derived
 Instantiating Base
     Base
     Instantiating Derived
     Base
```

None of the listed options

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 13 Multi Choice Type Question

Report Error

```
#include<iostream>
using namespace std;
class X
{
int m;
public:
X(): m(10)
{
}
X(int mm): m(mm)
{
}
int getm()
{
return m;
}
};
class Y: public X
{
int n;
public:
Y(int nn): n(nn) {}
int getn() { return n; }
};
int main()
{
Y yobj( 100 );
cout << yobj.getm( ) << " " << yobj.getn( ) << endl;</pre>
}
```

O 10 100	CORRECT
<u> </u>	
0 10 10	

100 100

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 14 Multi Choice Type Question

Report Error

```
#include <iostream>
using namespace std;
class p
{
protected:
int width, height;
public:
void set_values (int a, int b)
width = a; height = b;
virtual int area (void) = 0;
class r: public p
{
public:
int area (void)
return (width * height);
}
};
class t: public p
{
public:
int area (void)
return (width * height / 2);
}
};
int main ()
{
```

```
r rect;
t trgl;
p * ppoly1 = ▭
p * ppoly2 = &trgl;
ppoly1->set_values (4, 5);
ppoly2->set_values (4, 5);
cout << ppoly1 -> area();
cout << ppoly2 -> area();
return 0;
}

1020

20

20

20

CORRECT
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 15 Multi Choice Type Question

Report Error

```
#include <iostream>
using namespace std;
class MyInterface
{
public:
virtual void Display() = 0;
};
class Class1 : public MyInterface
{
public:
void Display()
{
int a = 5;
cout << a;</pre>
```

```
}
};
class Class2: public MyInterface
{
public:
void Display()
cout <<" 5" << endl;
}
};
int main()
{
Class1 obj1;
obj1.Display();
Class2 obj2;
obj2.Display();
return 0;
}
     5
     10
                                   CORRECT
     5 5
     None of the listed options
                                             Hints used: 0
 Status: Correct
                       Mark obtained: 1/1
                                                                   Level: Medium
 Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming
 Subject: Inheritance
Show solution
Question No: 16
                                Multi Choice Type Question
                                                                              Report Error
What is the output of this program?
#include <iostream>
using namespace std;
class BaseClass
{
int i;
```

```
public:
void setInt(int n);
int getInt();
};
class DerivedClass: public BaseClass
{
int j;
public:
void setJ(int n);
int mul();
};
void BaseClass::setInt(int n)
i = n;
}
int BaseClass::getInt()
return i;
}
void DerivedClass::setJ(int n)
j = n;
int DerivedClass::mul()
return j * getInt();
int main()
DerivedClass ob;
ob.setInt(10);
ob.setJ(4);
cout << ob.mul();
return 0;
}
     10
                                      CORRECT
     None of the listed options
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 17 Multi Choice Type Question

Report Error

```
#include <iostream>
using namespace std;
class stu
{
protected:
int rno;
public:
void get_no(int a)
rno = a;
void put_no(void)
}
};
class test:public stu
protected:
float part1,part2;
public:
void get_mark(float x, float y)
{
part1 = x;
part2 = y;
void put_marks()
{
}
};
class sports
{
protected:
float score;
public:
void getscore(float s)
{
```

```
score = s;
}
void putscore(void)
{
}
};
class result: public test, public sports
{
float total;
public:
void display(void);
};
void result::display(void)
{
total = part1 + part2 + score;
put_no ();
put_marks();
putscore();
cout << "Total Score=" << total << "\n";
}
int main()
{
result stu;
stu.get_no(123);
stu.get_mark(27.5, 33.0);
stu.getscore(6.0);
stu.display();
return 0;
}
```

o 66.5	CORRECT
64.5	
62.5	
60.5	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 18

Multi Choice Type Question

Report Error

```
#include <iostream>
using namespace std;
class poly
{
protected:
int width, height;
public:
void set_values(int a, int b)
{
width = a; height = b;
}
};
class Coutput
{
public:
void output(int i);
};
void Coutput::output(int i)
{
cout << i;
}
class rect:public poly, public Coutput
{
public:
int area()
{
return(width * height);
}
};
class tri:public poly, public Coutput
{
public:
int area()
return(width * height / 2);
}
};
int main()
{
rect rect;
```

```
tri trgl;
rect.set_values(3, 4);
trgl.set_values(4, 5);
rect.output(rect.area());
trgl.output(trgl.area());
return 0;
}

1212

CORRECT

1010

none of the listed options
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 19 Multi Choice Type Question

Report Error

```
#include <iostream>
using namespace std;
template < class T>
class A
{
public:
A(int a): x(a) {}
protected:
int x;
};
template < class T>
class B: public A<char>
{
public:
B(): A<char>::A(100)
{
```

```
cout << x * 2 << endl;
};
int main()
{
B<char> test;
return 0;
}

100

CORRECT

error

runtime error
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Question No: 20 Multi Choice Type Question

Report Error

```
#include <typeinfo>
#include <iostream>
using namespace std;
class shape
{
public:
virtual void myvirtualfunc() const {}
};
class mytriangle: public shape
{
public:
virtual void myvirtualfunc() const
{
};
};
int main()
```

```
SKCT
shape shape_instance;
shape &ref_shape = shape_instance;
try
{
mytriangle &ref_mytriangle = dynamic_cast<mytriangle&>(ref_shape);
}
catch (bad_cast)
cout << "Caught: bad_cast exception\n";</pre>
}
return 0;
}
     Caught standard exception
     No exception arises
 Caught: bad_cast exception
                                  CORRECT
    None of the listed options
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Inheritance

Show solution

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_P(Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 2 OS used: Windows Browser used: Chrome

Test Duration: 00:03:16 Test Start Time: May 28, 2022 | 11:11 AM

Test Submit Time: May 28, 2022 | 11:15 AM

Download

Overall score



Rank: NA

Topper score: 20.00 / 20
Average score: 19.13 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 19.39 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

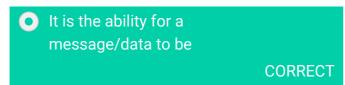


Question No: 1

Multi Choice Type Question

Report Error

Which among the following best describes polymorphism?



2, 3:31 PM		SKCT		
processed in m	ore than one			
It is the ability for processed in or	or a message/data to be nly 1 form			
It is the ability for to be processed	or many messages/data d in one way			
It is the ability for message/data to least one way	or undefined to be processed in at			
Status: Correct	Mark obtained: 1/1	lints used: 0	Level : Ea	sy
Question type: MC0 Subject: Object Orio	Q Single Correct Subject : ented Concepts	Programming Su	ı bject : C++ Pr	ogramming
Question No: 2	Multi Choice T	ype Question		Report Error
	passed to objects of severa t way, what is this feature o		es and all of the	ose can
Inheritance				
Overloading				
Polymorphism	CORRECT			
Overriding				
Status: Correct Question type: MCC Subject: Object Orion	Q Single Correct Subject:	Hints used: 0 Programming Su	Level: Me ubject: C++ Pr	
Question No: 3	Multi Choice T	ype Question		Report Error
Which type of function	on among the following sho	ows polymorphis	m?	
Inline function				

8/15/2

22, 3:31 PM		SKCT		
Virtual function	CORRECT			
Undefined function	ons			
Class member ful	nctions			
Status: Correct Question type: MCQ S Subject: Object Orien	Mark obtained: 1/1 For Single Correct Subject: ted Concepts			
Question No: 4	Multi Choice T	ype Question		Report Error
In case of using abstraction called first?	ct class or function over	oading, which fui	nction is suppo	osed to be
Local function				
Function with high in compiler	hest priority CORRECT			
Global function				
	rest priority because it halted since long time,			

Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Multi Choice Type Question Question No: 5

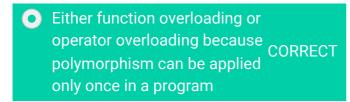
Report Error

Which among the following can't be used for polymorphism?

O Static member functions	CORRECT
Member functions overload	ing

Predefined operator	roverloading			
Constructor overloa	ading			
Status: Correct M Question type: MCQ Sir Subject: Object Oriente			Level: Ea Subject: C++ Pr	•
Question No: 6	Multi Choice T	ype Question		Report Error
Which among the follow	ing can show polymor	phism?		
Overloading				
Overloading +=				
Overloading <<	CORRECT			
Overloading &&				
Status: Correct M Question type: MCQ Sir Subject: Object Oriente	ngle Correct Subject :	lints used: 0 Programming	Level: Mo	
Question No: 7	Multi Choice T	ype Question		Report Error
If 2 classes derive one based some operators inside classes overloading, where is poly	ass body. Among thes			
Function overloading	ig only			
Operator overloading	ig only			

Both of these are using polymorphism



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 8 Multi Choice Type Question

Report Error

What is the other name of compile-time polymorphism?

Static polymorphism	CORRECT
Dynamic polymorphism	
Executing polymorphism	
Non-executing polymorphism	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 9 Multi Choice Type Question

Report Error

What is the other name of run-time polymorphism?

Static polymorphism	
O Dynamic polymorphism	CORRECT

Executing polymorphism

Non-executing polymorphism Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming **Subject:** Object Oriented Concepts **Question No: 10** Multi Choice Type Question **Report Error** Which of the following is correct about static polymorphism? In static polymorphism, the conflict between the function **CORRECT** call is resolved during the compile time In static polymorphism, the conflict between the function call is resolved during the run time In static polymorphism, the conflict between the function call is never resolved during the execution of a program In static polymorphism, the conflict between the function call is resolved. only if it required Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Object Oriented Concepts Question No: 11 Multi Choice Type Question **Report Error** Which of the following is correct about dynamic polymorphism? In dynamic polymorphism, the conflict between the function call is resolved during the compile time

In dynamic polymorphism,
the conflict between the CORRECT
function call is resolved
during the run time
In dynamic polymorphism, the conflict between the function call is never resolved during the execution of the program
In dynamic polymorphism, the conflict between the function call is resolved at the beginning of the program

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

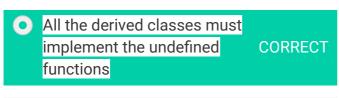
Question No: 12 Multi Choice Type Question

Report Error

Which problem may arise if we use abstract class functions for polymorphism?

All classes are converted as abstract
class

Derived class must be of abstract type



Derived classes can't redefine the function

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 13 Multi Choice Type Question

Report Error

Which among the following is not true for polymorphism?

It is feature of OOP
 Ease in readability of program
 Helps in redefining the same functionality
 Increases overhead of function definition always

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 14

Multi Choice Type Question

Report Error

Which of the following correctly describes overloading of functions?

Virtual polymorphism	
Transient polymorphism	
0	CORRECT
Pseudo polymorphism	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 15 Multi Choice Type Question

Report Error

Which class/set of classes can illustrate polymorphism in the following code?

```
1 abstract class student
2 {
3    public : int marks;
4    calc_grade();
5 }
```

```
class topper:public student
 6
 7
        public : calc grade()
 8
9
        {
            return 10;
10
11
12
    };
   class average:public student
13
14
        public : calc grade()
15
16
```

- Only class student can show polymorphism
- Only class student and topper together can show polymorphism
- All class student, topper and average together can show CORRECT polymorphism
- Class failed should also inherit class student for this code to work for polymorphism

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 16 Multi Choice Type Question

Report Error

What is output of the following program?

```
class student
 1
 2
         public : int marks;
 3
         void disp()
 4
 5
         {
             cout<<"its base class"</pre>
 6
 7
         };
         class topper:public student
 8
 9
             public :
10
             void disp()
11
12
             {
                  cout<<"Its derived class";</pre>
13
14
```

15 }
16 void main() { student s; topper t;

Its base classIts derived class

Its base class Its derived class

Its derived classIts base class

Its derived class Its base class

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 17

Multi Choice Type Question

Report Error

Find the output of the following program.

```
class education
 2
        char name[10];
 3
        public : disp()
 4
 5
         {
             cout<<"Its education system";</pre>
 6
 7
         class school:public education
 8
 9
10
             public: void dsip()
11
                  cout<<"Its school education system";</pre>
12
13
14
         };
         void main()
15
16
```

Its school education system CORRECT

- Its education system
- Its school education systemIts education system

lts education systemIts school

education systen	ו			
Status: Correct Question type: MCQ Subject: Object Orien	Mark obtained: 1/1 Single Correct Subject: ated Concepts			
Question No: 18	Multi Choice	Type Question		Report Error
Which of the following	is a mechanism of stati	ic polymorphism?		
Templates				
Function overload	ding			
Operator overload	ding			
0	CORRECT			
Status: Correct	Mark obtained: 1/1	Hints used: 0	Level : Easy	,
Question type: MCQ	Single Correct Subject:	Programming S	ubject: C++ Prog	gramming
Subject: Object Orien	ited Concepts			
Question No: 19	Multi Choice	Type Question		Report Error
Which of the following	statements is NOT valid	d about operator	overloading?	
Only existing ope overloaded.	rators can be			
Overloaded opera	ator must have at least s class type.			
The overloaded o	operators follow the			
	le original operator.			

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Question No: 20 Multi Choice Type Question

Report Error

What will happen when the function call operator is overloaded?

It will not modify the functions.

It will modify the functions.

It will modify the object.

It will modify the operator to be interpreted.

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Object Oriented Concepts

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_E>Course: 2021_25 II_Dat

Attempt 1

Browser used: Chrome

Test Submit Time: May 31, 2022 | 12:30 AM

Download

Overall score

Rank: NA
Topper score: 20.00 / 20
Average score: 19.33 / 20
Least score: 0.00 / 20

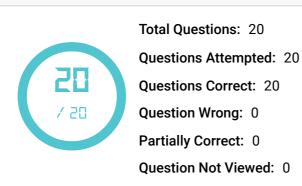
MCQ



Rank: NA

Topper score: 20.00 / 20
Average score: 19.61 / 20
Least score: 5.00 / 20

Overall Question Status



MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

1

Question No: 1

Multi Choice Type Question

Report Error

What will happen when the exception is not caught in the program?



program will execute		
block of that code will not exe	ecute	
None of the listed options		
	ined: 1/1 Hints used: 0 Level: Easy ect Subject: Programming Subject: C++ Programming	g
Question No: 2 M	Iulti Choice Type Question Report Err	ror
Which key word is used to check ex	xception in the block of code?	
catch		
throw		
• try	CORRECT	
None of the listed options	CORRECT	
None of the listed options Status: Correct Mark obtain	ined: 1/1 Hints used: 0 Level: Medium ect Subject: Programming Subject: C++ Programming	g
None of the listed options Status: Correct Mark obtain Question type: MCQ Single Correct	ined: 1/1 Hints used: 0 Level: Medium	g
None of the listed options Status: Correct Mark obtain Question type: MCQ Single Correct Subject: Exception Handling Show solution	ined: 1/1 Hints used: 0 Level: Medium	
None of the listed options Status: Correct Mark obtain Question type: MCQ Single Correct Subject: Exception Handling Show solution	ined: 1/1 Hints used: 0 Level: Medium ect Subject: Programming Subject: C++ Programming	
None of the listed options Status: Correct Mark obtain Question type: MCQ Single Correct Subject: Exception Handling Show solution Question No: 3 Me	ined: 1/1 Hints used: 0 Level: Medium ect Subject: Programming Subject: C++ Programming	

, 3:29 РМ		SKCI		
executes the rema	aining block			
None of the listed	options			
Status: Correct	Mark obtained: 1/1 H Single Correct Subject: F		Level: Eas	
Subject: Exception Ha		Togramming 30	bject. Gtt Pit	ogramming
,				
Question No: 4	Multi Choice Ty	ype Question		Report Error
Which keyword is used	to handle the exception?	,		
try				
throw				
	0000000			
catch	CORRECT			
None of the listed	options			
Status: Correct Question type: MCOS	Mark obtained: 1/1 H Single Correct Subject: F			-
Subject: Exception Ha		rogramming GC	ibject. Or ric	ogramming .
Show solution				
Question No: 5	Multi Choice Ty	vne Question	1	Report Error
		ype queedien	l	Report Error
Which is used to throw	a exception?			
• throw	CORRECT			
O Ami				
try				
catch				

None of the listed options

Status: Correct	Mark obtained: 1/1	Hints used: 0	Leve	l: Easy
Question type: MCQ Subject: Exception I	Single Correct Subjec Handling	t: Programming	Subject: C-	++ Programming
Question No: 6	Multi Choic	e Type Question		Report Error
What is the use of the	'finally' keyword?			
It used to execur	te at the starting of the			
of the program e exception arisec	even if the CORREC	Т		
Both A & B				
None of the liste	ed options			
Status: Correct Question type: MCC Subject: Exception I	Mark obtained: 1/1 Single Correct Subjec Handling			l: Easy ++ Programming
Show solution				
Question No: 7	Multi Choic	e Type Question		Report Error
Which block should be	e placed after try block	?		
catch				
throw				
o a or b	CORREC	Т		
None of the liste	ed options			

Mark obtained: 1/1

Hints used: 0

Level: Medium

Status: Correct

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Exception Handling **Question No: 8** Multi Choice Type Question **Report Error** Where do the exceptions use? To preserve the program Exceptions are used when postconditions of a function cannot be satisfied. Exceptions are used when postconditions of a function CORRECT can be satisfied. None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Exception Handling **Question No: 9** Multi Choice Type Question **Report Error** Where does the exception handle? inside the program outside the regular code **CORRECT** Both A & B None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Exception Handling **Question No: 10** Multi Choice Type Question **Report Error** Which is used to check the error in the block? **CORRECT** try throw catch None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Exception Handling Show solution **Question No: 11** Multi Choice Type Question **Report Error** What kind of exceptions are available in c++? handled

unhandled **CORRECT** static dynamic

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

Question No: 12 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
double division(int a, int b)
if (b == 0)
throw "Division by zero condition!";
return (a / b);
int main ()
int x = 50;
int y = 0;
double z = 0;
try
{
z = division(x, y);
cout << z << endl;
catch (const msg)
cerr << msg << endl;
return 0;
}
```

50

0

Division by zero condition

0

Error

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Exception Handling Show solution **Question No: 13 Multi Choice Type Question Report Error** Which alternative can replace the throw statement? for break return **CORRECT** exit Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Exception Handling Show solution **Ouestion No: 14** Multi Choice Type Question **Report Error** What is the output of this program? #include <stdexcept> #include <limits> #include <iostream> using namespace std; void MyFunc(char c) { if (c < numeric_limits<char>::max()) return invalid_argument; } int main() { try { MyFunc(256);

}

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

Show solution

Question No: 15 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <exception>
using namespace std;
class myexc: public exception
{
  virtual const char* what() const throw()
{
  return "My exception";
}
} myex;
int main ()
{
  try
{
  throw myex;
```

```
catch (exception& e)
{
cout << e.what() << endl;
}
return 0;
}

My

My

CORRECT

No exception
```

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

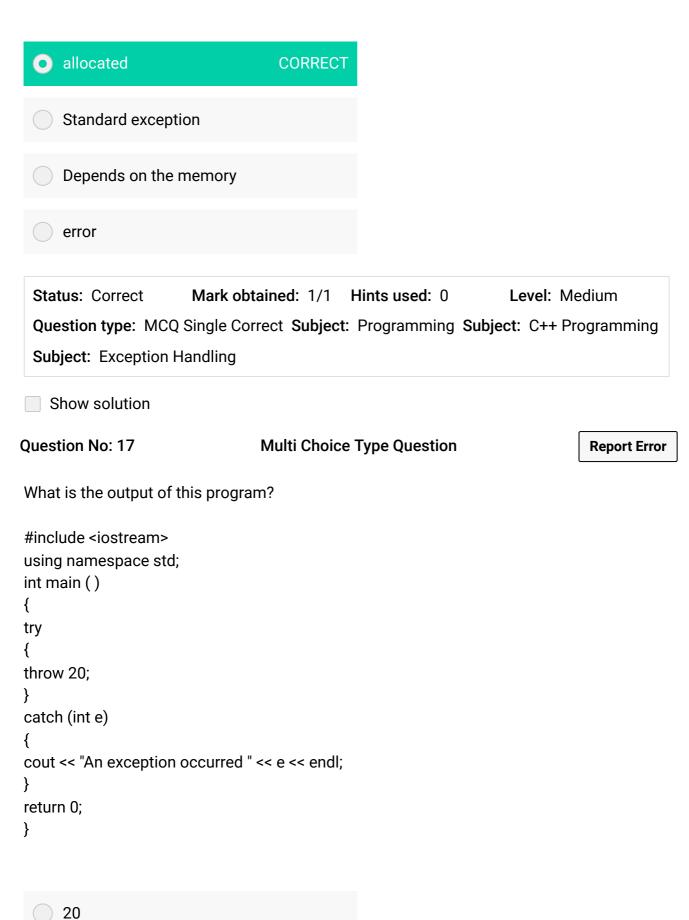
Show solution

Question No: 16 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <exception>
using namespace std;
int main ()
{
   try
{
   int* myarray = new int[1000];
   cout << "allocated";
}
   catch (exception& e)
{
   cout << "Standard exception: " << e.what() << endl;
}
   return 0;
}</pre>
```



error

An exception occurred



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

Show solution

Question No: 18 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
void Funct();
int main()
{
   try {
    Funct();
   }
   catch(double) {
    cerr << "caught a double type..." << endl;
}
   return 0;
}
void Funct()
{
   throw 3;
}</pre>
```

caught a double type

ompile time error

abnormal program CORRECT termination

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

Show solution

Question No: 19 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
int main()
double a = 10, b = 5, res;
char Operator = '/';
try
{
if (b == 0)
throw "Division by zero not allowed";
res = a / b;
cout << a << " / " << b << " = " << res;
}
catch(const char* Str)
cout << "\n Bad Operator: " << Str;
}
return 0;
}
```

10

2

Bad Operator

10 /5 =2

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

Show solution

Question No: 20 Multi Choice Type Question

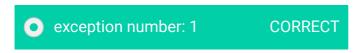
Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
int main()
{
try
{
throw 1;
}
catch (int a)
{
cout << "exception number: " << a << endl;
return 0;
}
cout << "No exception " << endl;</pre>
return 0;
}
```

No exception

exception number



None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Exception Handling

Show solution

Result & Analysis

Student: Gm_Abhishek Email id: 727821tuit004Test: IRC_CPP_MCQ_S1Course: 2021_25 II_Dat

Attempt 1

IP Address: 2409:4072:8e84:6e52:9ed:970d:6086:2b21 Tab switches: 2 OS used: Windows

Browser used: Chrome

Test Start Time: Jun 2, 2022 | 06:32 AM Test Duration: 00:03:37

Test Submit Time: Jun 2, 2022 | 06:36 AM

Download

Overall score



Rank: NA

Topper score: 20.00 / 20

Average score: 19.30 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20

Average score: 19.58 / 20

Least score: 5.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

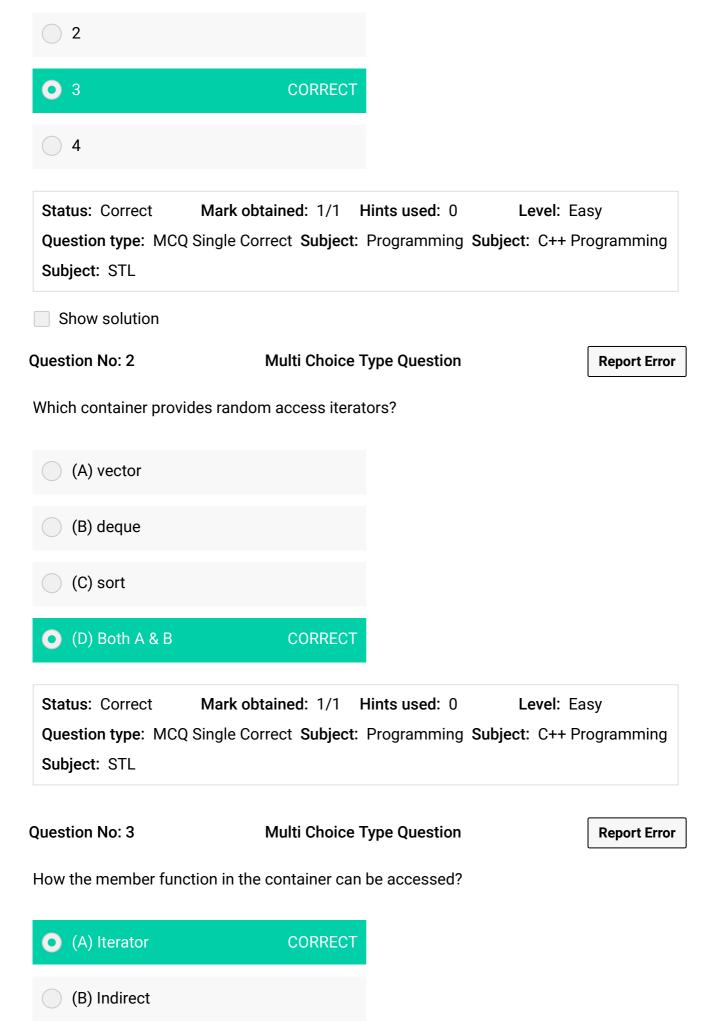
Question No: 1

Multi Choice Type Question

Report Error

How many sets of requirements are needed in designing a container?





(C) Both A & B				
(D) None of the li	sted options			
Status: Correct Question type: MCQ Subject: STL	Mark obtained: 1/1 F Single Correct Subject: Blooms Taxonomy: An	Programming		•
Show solution				
Question No: 4	Multi Choice T	ype Question		Report Error
Which of the following	type should the containe	er define?		
• Iterator type	CORRECT			
Vector type				
Storage type				
None of the lister	d options			
Status: Correct	Mark obtained: 1/1	lints used: 0	Level : Ea	sy
Question type: MCQ Subject: STL	Single Correct Subject : Blooms Taxonomy : An		Subject: C++ Pr	ogramming
Show solution	Blooms raxonomy. An	uryse		
Question No: 5	Multi Choice T	ype Question		Report Error
What do vectors repres	sent?			
Static arrays				
Dynamic arrays	CORRECT			
Stack				

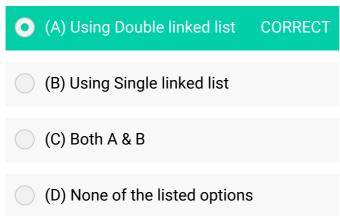
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SKCT Queue Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution **Question No: 6** Multi Choice Type Question **Report Error** How many vector container properties are there in c++? 1 **CORRECT** Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution **Question No: 7 Multi Choice Type Question Report Error** How many items are there in sequence container? 1 2

4

CORRECT

Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution **Question No: 8 Multi Choice Type Question Report Error** Which of the following will return the new element at the end of container? front back **CORRECT** push_back pop_back Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Question No: 9 Multi Choice Type Question **Report Error** How the list containers are implemented? (A) Using Double linked list **CORRECT** (B) Using Single linked list



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: STL

Show solution **Question No: 10 Multi Choice Type Question Report Error** Which are presented in the container adaptors? stack queue priority_queue All of the listed options CORRECT Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution **Question No: 11** Multi Choice Type Question **Report Error** By using which of the following the elements in the associate container can be efficiently accessed? CORRECT (A) Key (B) Position (C) Both A & B (D) None of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL

Show solution

Question No: 12

Multi Choice Type Question

Report Error

How many items are presented in the associate container?

2
3
4
CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: STL

Show solution

Question No: 13 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <algorithm>
#include <vector>
using namespace std;
int main ()
{
vector<int> first (5, 10);
vector<int> second (5, 33);
vector<int>::iterator it;
swap_ranges(first.begin() + 1, first.end() - 1, second.begin());
cout << " first contains:";
for (it = first.begin(); it != first.end(); ++it)
cout << " " << *it;
cout << "\nsecond contains:";
for (it = second.begin(); it != second.end(); ++it)
cout << " " << *it;
return 0;
}
```

```
(A) first contains: 10 33 33 33 10 second contains: 10 10 10 33 33
(B) first contains: 10 33 33 33 10 second contains: 10 10 10 33 10
(C) Both A & B
(D) None of the listed options
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: STL

Show solution

Question No: 14 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <set>
using namespace std;
int main ()
{
set<int> myset;
myset.insert(20);
myset.insert(30);
myset.insert(10);
while (!myset.empty( ))
{
cout << ' ' << *myset.begin();
myset.erase(myset.begin());
}
cout << '\n';
return 0;
}
```

10

8/15/22, 3:29 PM

SKCT 20 30 All of the listed options **CORRECT** Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution Question No: 15 Multi Choice Type Question **Report Error** What is the output of this program? #include <iostream> #include <set> using namespace std; int main () { multiset<int> mymultiset; for (int i = 0; i < 5; i++) mymultiset.insert(i);

12345 01234 **CORRECT** 1234 0123

Status: Correct Level: Medium Mark obtained: 1/1 Hints used: 0 Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution **Question No: 16 Multi Choice Type Question Report Error** To what type of object does the container can be instantiated? int float double Any type of object **CORRECT** Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL **Question No: 17 Multi Choice Type Question Report Error** What is the output of this program? #include <iostream> #include <vector> using namespace std; int main () unsigned int i; vector<int> first; vector<int> second (4, 100); vector<int> third (second.begin(), second.end()); vector<int> fourth (third); int myints[] = {16, 2, 77, 29}; vector<int> fifth (myints, myints + sizeof(myints) / sizeof(int)); for (vector<int> :: iterator it = fifth.begin(); it != fifth.end(); ++it)

```
cout << ' ' << *it;
return 0;
}
```

16

162

16277



16 2 77 29

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: STL

Show solution

Ouestion No: 18 Multi Choice Type Question **Report Error**

What is the output of this program?

```
#include <iostream>
#include <vector>
int main ()
{
vector<int> myvector;
int sum (0);
myvector.push_back (100);
myvector.push_back (200);
myvector.push_back (300);
while (!myvector.empty( ))
{
sum += myvector.back();
myvector.pop_back();
}
cout << sum << '\n';
return 0;
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: STL

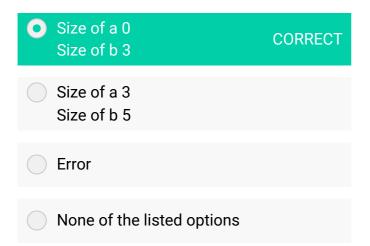
Show solution

Question No: 19 Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
#include <vector>
using namespace std;
int main ()
{
  vector<int> a (3, 0);
  vector<int> b (5, 0);
  b = a;
  a = vector<int>();
  cout << "Size of a " << int(a.size()) << '\n';
  return 0;
}</pre>
```



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution Question No: 20 Multi Choice Type Question **Report Error** What is the output of this program? #include <iostream> #include <vector> using namespace std; int main () { vector<int> first; first.assign (7,100); vector<int>::iterator it; it=first.begin()+1; int myints[] = $\{1776,7,4\}$; cout << int (first.size()) << '\n'; return 0; } 10 9 8 **CORRECT** Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: STL Show solution

Result & Analysis

Student: GUGAN S Email id: 727821tuit023Test: IRC_CPP_MCQ_TECourse: 2021_25 II_Dat

Attempt 1

Browser used: Chrome

Test Submit Time: Jun 3, 2022 | 08:03 AM

Download

Overall score

7 20

Rank: NA

Topper score: 20.00 / 20

Average score: 19.25 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20

Average score: 19.51 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status

Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

7

Multi Choice Type Question

Report Error

What is a template?

Question No: 1



CORRECT

A template is used to manipulate the class
A template is used for creating the attributes
none of the listed options
Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Templates
Question No: 2 Multi Choice Type Question Report Error
Pick out the correct statement about string template
It is used to replace a string.
It is used to replace a string with another string at CORRECT runtime.
It is used to delete a string.
none of the listed options
Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Templates
Show solution
Question No: 3 Multi Choice Type Question Report Error
What may be the name of the parameter that the template should take?
o same as template CORRECT

same as class				
same as function				
none of the listed options				
Status: Correct Mark obtained Question type: MCQ Single Correct Subject: Templates		lints used: 0 Programming Sul	Level: Ea oject: C++ Pi	-
Question No: 4	Multi Choice T	ype Question		Report Error
What is a function template?				
 (A) creating a function without having to specify th exact type. 	e CORRECT			
(B) creating a function with exact type.	having a			
(C) both A & B				
(D) none of the listed option	ıs			
Status: Correct Mark obtained Question type: MCQ Single Correct Subject: Templates	-	lints used: 0 Programming Sub	Level: Ea oject: C++ Pr	-
	Multi Choice T			Report Error
Which is used to describe the fun	ction using pla	aceholder types?		
template parameters				
• template type parameters	CORRECT			

template type none of the listed options Mark obtained: 1/1 Hints used: 0 Status: Correct Level: Easy Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming Subject: Templates Show solution **Question No: 6** Multi Choice Type Question **Report Error** What is the output of this program? #include <iostream> using namespace std; template type Max(type Var1, type Var2) { return Var1 > Var2 ? Var1:Var2; } int main() { int p; p = Max(100, 200);cout << p << endl; return 0; } 100 200 **CORRECT**

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

300

100200

Subject: Templates

Show solution

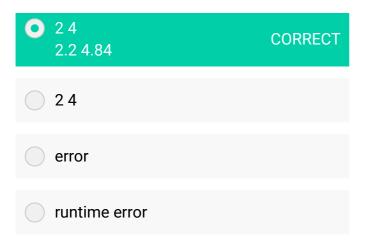
Question No: 7

Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
template
inline T square(T x)
{
T result;
result = x * x;
return result;
};
int main()
{
int i, ii;
float x, xx;
double y, yy;
i = 2;
x = 2.2;
y = 2.2;
ii = square(i);
cout << i << "" << ii << endl;
yy = square(y);
cout << y << "" << yy << endl;
}
```



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Templates

Show solution

Question No: 8

Multi Choice Type Question

Report Error

What is the output of this program?

```
#include <iostream>
using namespace std;
template
void looplt(T x)
{
   T val[count];
   for (int ii=0; ii < count; ii++)
   {
   val[ii] = x++;
   cout << val[ii] << endl;
}
};
int main()
{
float xx = 2.1;
looplt(xx);
}</pre>
```

2.1

3.1

3.2

2.13.1 CORRECT4.1

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Templates

Show solution

Question No: 9

Multi Choice Type Question

Report Error

Which is dependant on template parameter?

o base class	CORRECT
abstract class	
method	
None of the listed options	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Templates

Question No: 10 Multi Choice Type Question

Report Error

Which is an instantiation of the basic_string class template?

Character	
String class	CORRECT
Memory	
None of the listed options	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Templates

Show solution

Question No: 11 Multi Choice Type Question

Report Error

What is lambda expression in C++?

., 0.40 1 101	SINOT	
A technique of C++ that allows us to write inline		
A technique of C++ that allows us to write overloaded functions		
A technique of C++ that allows us to write functions that are called more that once	1	
A technique of C++ that allows us to write functions without parameters		
Status: Correct Mark obtained: 1/1 Question type: MCQ Single Correct Subject Subject: Lambda Expression Blooms Taxor		•
Show solution		
What is the syntax of defining lambda express [capture clause](parameters)	e Type Question sions?	Report Error
-> return_type { body of the CORRECT function }		
<pre>[parameters](capture clause) -> return_type { body of the function }</pre>		
[parameters:capture clause]() -> return_type { body of the function }		
[capture clause:parameters]() -> return_type { body of the function }		

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 13 Multi Choice Type Question

Report Error

What is the correct statement about lambda expressions?

 The return type of lambda expression can be neglected CORRECT in some cases

The return type of lambda expression must be specified in all cases

Lambda expression should be very large functions

Lambda expression is also available in C

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 14 Multi Choice Type Question

Report Error

Which of the following operator is used to capture all the external variables by reference?

CORRECT=*&&

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

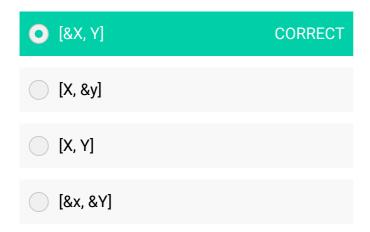
Show solution

Question No: 15

Multi Choice Type Question

Report Error

Which is the correct syntax for capturing a variable 'X' by reference and other variable 'Y' by value in the lambda expression?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 16

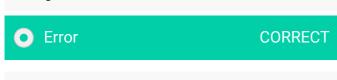
Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include<iostream>
    using namespace std;
 2
    int main()
 3
 4
 5
        int x = 5;
 6
        auto check = []() -> bool
 7
             if(x == 0)
 8
 9
                 return false;
             else
10
                 return true;
11
12
        cout<<check()<<endl;</pre>
13
        return 0;
14
    }
15
```

0



Segmentation fault

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 17 Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
1 #include<iostream>
    using namespace std;
 3
    int main()
 4
 5
        int a = 5;
        auto check = [](int x)
 6
 7
 8
             if(x == 0)
 9
                 return false;
             else
10
                 return true;
11
12
        };
        cout<<check(a)<<endl;</pre>
13
        return 0;
14
    }
15
```

0



Error

Segmentation fault

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 18

Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include<iostream>
 1
   using namespace std;
    int main()
 3
 4
    {
 5
        int a = 5;
        auto check = [=]()
 6
 7
             {
             a = 10;
 8
 9
        };
        check();
10
        cout<<"Value of a: "<<a<<endl;</pre>
11
        return 0;
12
13
   }
```

Value of a: 5

Value of a: 10



Error

CORRECT

Segmentation fault

Status: Correct Mark obtained: 1/1 Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 19

Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
int main()
{
  int a = 5;
```

```
auto check = \lfloor \& \rfloor()
 7
               {
               a = 10;
 8
 9
          };
          check();
10
          cout<<"Value of a: "<<a<<endl;</pre>
11
          return 0;
12
13
    }
```

- Value of a: 5
- Value of a: 10



CORRECT

Segmentation fault

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Question No: 20

Multi Choice Type Question

Report Error

What will be the output of the following C++ code?

```
#include<iostream>
   using namespace std;
    int main()
 3
 4
 5
        int a = 5;
        int b = 5;
 6
 7
        auto check = [&a]()
 8
 9
             a = 10;
10
             b = 10;
11
        check();
12
        cout<<"Value of a: "<<a<<endl;</pre>
13
        cout<<"Value of b: "<<b<<endl;</pre>
14
15
        return 0;
16 }
```

Value of a: 5

Value of a: 10

Error CORRECT

Segmentation fault

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C++ Programming

Subject: Lambda Expression Blooms Taxonomy: Analyse

Show solution

Result & Analysis

Student: GUGAN S Email id: 727821tuit023Test: IRC_DSA THROUG Course: 2021_25 II_Dat

Attempt 1

IP Address: 2409:4072:6e83:8a28:b70c:f697:c15a:536b Tab switches: 12 OS used: Android

Browser used: Chrome

Test Duration: 00:01:32 Test Start Time: Jun 3, 2022 | 08:04 AM

Test Submit Time: Jun 3, 2022 | 08:07 AM Resume Count: 1

Download

Overall score

Rank: NA

Topper score: 20.00 / 20

Average score: 18.95 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20

Average score: 19.43 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status

Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

Question No: 1

Multi Choice Type Question

Report Error

Consider an implementation of unsorted singly linked list. Suppose it has its representation with a head pointer only.

Given the representation, which of the following operation can be implemented in O(1) time?

- i) Insertion at the front of the linked list
- ii) Insertion at the end of the linked list
- iii) Deletion of the front node of the linked list
- iv) Deletion of the last node of the linked list

I and II	
I and III	CORRECT
, II and III	
I, II and IV	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 2 Multi Choice Type Question

Report Error

Consider a small circular linked list. How to detect the presence of cycles in this list effectively?

- Keep one node as head and traverse another temp node till the end to check if its 'next points to head
- Have fast and slow pointers
 with the fast pointer
 advancing two nodes at a
 time and slow pointer
 advancing by one node at a
 time
- Cannot determine, you have to predefine if the list contains cycles

Circular linked list itself represents a

cycle. So no new generated	cycles cannot be			
Status: Correct Question type: MCQ Subject: Singly linke	Mark obtained : 1/1 F Single Correct Subject : d List		Level : Ea Subject : Data S	
Question No: 3	Multi Choice T	ype Question		Report Error
Which of the following	ງ is not true about a circul	lar linked list?		
Every node has a	a successor			
Time complexity at the head of th	of inserting a new node e list is O(1)			
Time complexity node is O(n)	for deleting the last			
We can traverse circular linked listfrom any point	the whole at by starting CORRECT			
2 1.121			1	1.
Status: Correct Question type: MCQ Subject: Singly linke	Mark obtained: 1/1 For Single Correct Subject: d List			
Question No: 4	Multi Choice 1	ype Question		Report Error
In a circular linked list	organization, insertion of	f a record invol	ves modification	of
One pointer.				
Two pointers.	CORRECT			

Multiple pointers.				
No pointer.				
Status: Correct Ma Question type: MCQ Sing Subject: Singly linked Lis	gle Correct Subject:	Hints used: 0 Programming S	Level : Ea u bject : Data S	
Show solution				
Question No: 5	Multi Choice	Гуре Question		Report Error
Which of the following stat	tements is true?			
Elements of a linked- be accessed only sequentially.	list can CORRECT			
Array elements can be modified (elements or removed) only at the while any element of accessed/modified ratheir indices.	ean be added or ends of the array stacks can be			
An array can have ele	ements of different			
Arrays is a dynamic of whose size can be chare static data structurare fixed.	nanged while stacks			
Status: Correct Ma	ark obtained: 1/1	Hints used: 0	Level: Ha	ard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 6 Multi Choice Type Question

Report Error

Given pointer to a node X in a singly linked list. Only one pointer is given, pointer to head node is not given, can we delete the node X from given linked list?

0	Possible if X is not the last node. Copy the data of next of X to X. Delete next of X.
	Possible if size of linked list is even
	Possible if size of linked list is odd
	Possible if X is not first node. Copy the data of next of X to X. Delete next of X.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 7 Multi Choice Type Question

Report Error

What is a memory efficient double linked list?

 Each node has only one pointer to traverse the list CORRECT back and forth

- The list has breakpoints for faster traversal
- An auxiliary singly linked list acts as a helper list to traverse through the doubly linked list
- None of listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 8

Multi Choice Type Question

Report Error

Assume ILAST points to the last node in a singly linked list whose top (i.e. front) is TOPI. Assume TOP2 points to the first node in another singly linked list. Which statement will append list2 to the end of list1.

```
TOP2 := ILAST;

ILAST := TOP2;

LINK[TOP2] := ILAST;

CORRECT
```

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 9

Multi Choice Type Question

Report Error

A doubly linked list is declared as provided in the code snippet.

Where Fwd and Bwd represent forward and backward link to the adjacent elements of the list. Which of the following segments of code deletes the node pointed to by X from the doubly linked list, if it is assumed that X points to neither the first nor the last node list?

```
1 struct Node {
2 int value;
3 struct Node*Fwd;
4 struct Node*Bwd;
5 };
```



```
Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard
```

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Ouestion No: 10

•

Multi Choice Type Question

Report Error

Consider the C code fragment given below. Assuming that m and n point to valid NULL-terminated linked lists, invocation of join will

```
typedef struct node
        int data;
 2
        node* next;
 3
 4
        node;
 5
 6
   void join(node* m, node* n)
                                  {
 7
        node* p = n;
        while(p→next !=NULL)
8
9
           p = p→next;
10
        p→next=m;
11
   }
12
```

append list m to the end of list n for all inputs.

 either cause a null pointer dereference or append list m CORRECT to the end of list n.

cause a null pointer dereference for all inputs.

append list n to the end of list m for all inputs.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Show solution

Question No: 11 Multi Choice Type Question

Report Error

Complete the missing statements in the following program snippet to merge two sorted linked lists:

```
Node* merge(Node* h1, Node* h2)
 1
 2
 3
       if (!h1)
 4
           return h2;
       if (!h2)
 5
           return h1;
 6
       if (h1->data < h2->data) {
 7
           h1->next = ____
 8
           return h1;
9
10
       }
       else {
11
           h2->next = ____
                                      (B)
12
           return h2;
13
14
       }
   }
15
```

- (A) merge(h1->next, h2); (B) CORRECT merge(h1, h2->next);
- (A) merge(h2, h1->next); (B) merge(h1, h2->next);
- (A) merge(h1->next, h2); (B) merge(h2->next,h1);

```
(A) merge(h2->next, h1); (B) merge(h2, h1->next);

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List
```

Question No: 12

Multi Choice Type Question

Report Error

Consider the following function that takes reference to head of a Doubly Linked List as parameter. Assume that a node of doubly linked list has previous pointer as prev and next pointer as next.

Assume that reference of head of following doubly linked list is passed to above function 1 2 3 4 5 6.

What should be the modified linked list after the function call?

```
void fun(struct node **head ref)
 2
    {
        struct node *temp = NULL;
 3
        struct node *current = *head ref;
 4
 5
        while (current != NULL)
 6
 7
            temp = current->prev;
 8
9
            current->prev = current->next;
            current->next = temp;
10
11
            current = current->prev;
12
        }
13
        if(temp != NULL )
14
            *head_ref = temp->prev;
15
16 }
```

214365.

543216.

• 6 5 4 3 2 1. CORRECT

654312

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 13

Multi Choice Type Question

Report Error

What is the output of following function for start pointing to first node of following linked list?

1->2->3->4->5->6

```
void fun(struct node* start)
2
3
        if(start == NULL)
4
            return;
        printf("%d ", start->data);
5
        if(start->next != NULL )
6
7
            fun(start->next->next);
        printf("%d ", start->data);
8
9
    }
10
```

146641

135135

1235

135531

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 14

4 T LTNUZ/T\.

Multi Choice Type Question

Report Error

T is a singly linked list as shown below. What does the following pseudocode do to the list?



```
1  || = LINK(I);
2  P = LINK( LINK(T));
3  GETNODE(X);
4  DATA(X) = "meadow";
5  LINK(X) = P;
6  LINK( LINK(T)) = X;
```

- Insertion at front
- Insertion at end
 CORRECT
- Insertion in middle
- None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

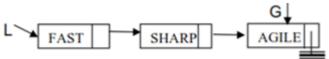
Subject: Singly linked List

Question No: 15

Multi Choice Type Question

Report Error

For the given linked list, the following fragment inserts "QUICK" as



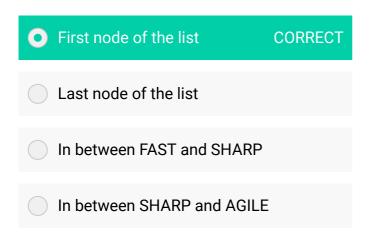
```
1 GETNODE(x);

2 DATA(X) = "QUICK";

3 G=L;

4 L=X;

5 LINK (L) = G;
```



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 16 Multi Choice Type Question

Report Error

Which of the following operations is performed more efficiently by doubly linked list than by singly linked list?

Deleting a node whose location in givenCORRECT

- Searching of an unsorted list for a given item
- Inverting a node after the node with given location
- Traversing a list to process each node

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 17 Multi Choice Type Question

In a circular linked list

Components are all linked together in some sequential manner.

There is no beginning and no end.

Components are arranged hierarchically.

Forward and backward traversal within the list is permitted.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 18 Multi Choice Type Question

Report Error

Report Error

In linked list each node contain minimum of two fields. One field is data field to store the data second field is?

Pointer to character

Pointer to integer

O Pointer to node CORRECT

Node

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Question No: 19

Multi Choice Type Question

Report Error

Consider the following definition in c programming language Which of the following c code is used to create new node?

```
struct node
1
  {
2
  int data;
3
  struct node * next;
4
5
  typedef struct node NODE;
6
  NODE *ptr;
7
8
```

```
ptr=
   (NODE*)malloc(sizeof(NODE));
   ptr=(NODE*)malloc(NODE);
   ptr=(NODE*)malloc(sizeof(NODE*));
   ptr=(NODE)malloc(sizeof(NODE));
```

```
Mark obtained: 1/1
                                        Hints used: 0
Status: Correct
                                                             Level: Medium
Question type: MCQ Single Correct Subject: Programming Subject: Data Structures
```

Subject: Singly linked List

Question No: 20 Multi Choice Type Question

Report Error

What is the functionality of the following code? Select the most appropriate.

```
public void function(int data)
1
2
   {
3
      int flag =0;
      if(head !=null)
4
5
6
         Node temp = head.getNext();
         while ( / temn | -head ) && ( | ( temn get Ttem ( ) -- data ) ) )
```

- Print success if a particular element is not found.
- O Print fail if a particular element is not found.
- Print success if a particular element is equal to 1.
- print fail if the list is empty.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Singly linked List

Result & Analysis

Student: GUGAN S Email id: 727821tuit023Test: IRC_DSA THROUG Course: 2021_25 II_Dat

Attempt 1

IP Address: 2409:4072:6e83:8a28:b70c:f697:c15a:536b Tab switches: 5 OS used: Android

Browser used: Chrome

Test Duration: 00:00:55 Test Start Time: Jun 3, 2022 | 08:07 AM

Test Submit Time: Jun 3, 2022 | 08:09 AM

Download

Overall score

Rank: NA

Topper score: 20.00 / 20

Average score: 19.32 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20

Average score: 19.70 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 20

Question Wrong: 0

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ

Question No: 1

Multi Choice Type Question

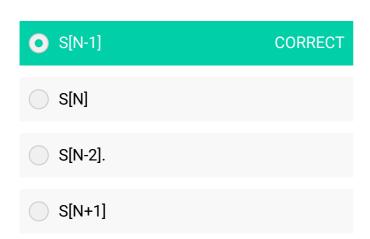
Report Error

Which of the following real-world scenarios would you associate with a stack data structure?



8/15/22, 6:39 PM

SKCT piling up of chairs one above CORRECT the other people standing in a line to be serviced at a counter offer services based on the priority of the customer All of the listed options Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: Data Structures Subject: Stacks Question No: 2 Multi Choice Type Question Report Error Which of the following array element will return the top-of-the-stack-element for a stack of size N elements(capacity of stack > N).



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 3 Multi Choice Type Question

Report Error

Which of the following is true about linked list implementation of stack?

In push operation, if new nodes are inserted at the beginning of linked list, then in pop operation, nodes must be removed from end.

In push operation, if new nodes are inserted at the end, then in pop operation, nodes must be removed from the beginning.

Both of these

0

None of the listed options

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 4

Multi Choice Type Question

Report Error

A single array A[1..MAXSIZE] is used to implement two stacks. The two stacks grow from opposite ends of the array. Variables top1 and top2 (topl< top 2) point to the location of the topmost element in each of the stacks. If the space is to be used efficiently, the condition for "stack full" is

(top1 = MAXSIZE/2) and (top2 = MAXSIZE/2+1)

top1 + top2 = MAXSIZE

(top1= MAXSIZE/2) or (top2 = MAXSIZE)

o top1

top1= top2 -1

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 5

Multi Choice Type Question

Report Error

Assume that the operators +, -, \times are left associative and ^ is right associative. The order of precedence (from highest to lowest) is ^, x , +, -. The postfix expression corresponding to the infix expression a + b \times c - d ^ e ^ f is

o abc × + def ^ ^ -	CORRECT
abc × + de ^ f ^ -	
ab + c × d - e ^ f ^	
-+ a × bc ^ ^ def	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 6

Multi Choice Type Question

Report Error

Consider the following operation performed on a stack of size 5.

Push(1);

Pop();

Push(2);

Push(3);

Pop();

Push(4);

Pop();

Pop();

Push(5);

After the completion of all operation, the no of element present on stack are



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 7

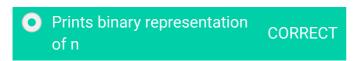
Multi Choice Type Question

Report Error

Following code takes a number as an argument, and uses a stack S to do processing.

```
void fun(int n)
 1
 2
        Stack S; // Say it creates an empty stack S
 3
        while (n > 0)
 4
 5
        // This line pushes the value of n%2 to stack S
 6
        push(&S, n%2);
 7
 8
9
        n = n/2;
10
11
        // Run while Stack S is not empty
12
        while (!isEmpty(&S))
13
        printf("%d ", pop(&S)); // pop an element from S and print it
14
15
   }
16
```

Prints binary representation of n in reverse order



Prints the value of Logn

Prints the value of Logn in reverse order

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 8

Multi Choice Type Question

Report Error

Following is an incorrect pseudocode for the algorithm which is supposed to determine whether a sequence of parentheses is balanced:

Which of these unbalanced sequences does the above code think is balanced?

```
1 declare a character stack
   while ( more input is available)
 3
   read a character
 4
 5
   if ( the character is a '(' )
       push it on the stack
    else if ( the character is a ')' and the stack is not empty )
 7
        pop a character off the stack
 8
9
   else
        print "unbalanced" and exit
10
11
   print "balanced"
12
13
```

((())	CORRECT
0)(0	
(00))	
(0))()	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 9

Multi Choice Type Question

Report Error

If the sequence of operations - push (1), push (2), pop, push (1), push (2), pop, pop, pop, push (2), pop are performed on a stack, the sequence of popped out values

2,2,1,1,2	CORRECT
2,2,1,2,2	
2,1,2,2,1	
2,1,2,2,2	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 10 Multi Choice Type Question

Report Error

'Array implementation of Stack is not dynamic', which of the following statements supports this argument?

- space allocation for array is fixed and cannot be changed CORRECT during run-time
- user unable to give the input for stack operations
- a runtime exception halts execution
- All of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Stacks

Question No: 11 Multi Choice Type Question

Report Error

Insertion and deletion operation in queue is known as

Push and Pop

Insert and Delete

Enqueue and Dequeue CORRECT

None of the listed options.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 12 Multi Choice Type Question

Report Error

Suppose a circular queue of capacity (n - 1) elements is implemented with an array of n elements. Assume that the insertion and deletion operation are carried out using REAR and FRONT as array index variables, respectively. Initially, REAR = FRONT = 0. The conditions to detect queue full and queue empty are

Full: (REAR+1) mod n ==
FRONT, empty: REAR == CORRECT
FRONT

Full: (REAR+1) mod n == FRONT, empty:
(FRONT+1) mod n == REAR

Full: REAR == FRONT, empty: (REAR+1)
mod n == FRONT

Full: (FRONT+1) mod n == REAR, empty:
REAR == FRONT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 13 Multi Choice Type Question

Report Error

A normal queue, if implemented using an array of size MAX_SIZE, gets full when

Rear = MAX_SIZE - 1	CORRECT
Front = (rear + 1)mod MAX_S	SIZE
Front = rear + 1	
Rear = front	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 14 Multi Choice Type Question

Report Error

In linked list implementation of a queue, front and rear pointers are tracked. Which of these pointers will change during an insertion into EMPTY queue?

Only front pointer	
Only rear pointer	
Both front and rear pointer	CORRECT
None of the front and rear po	ointer

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 15 Multi Choice Type Question

Report Error

If the elements "A", "B", "C" and "D" are placed in a queue and are deleted one at a time, in what order will they be removed?

ABCD	CORRECT
DCBA	
DCAB	
ABDC	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 16 Multi Choice Type Question

Report Error

If the MAX_SIZE is the size of the array used in the implementation of circular queue. How is rear manipulated while inserting an element in the queue?

rear=(rear%1)+MAX_SIZE	
rear=rear%(MAX_SIZE+1)	
o rear=(rear+1)%MAX_SIZE	CORRECT
rear=rear+(1%MAX_SIZE)	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 17 Multi Choice Type Question

Report Error

After performing these set of operations, what does the final list look contain?

- 1 InsertFront(10);
- 2 InsertFront(20);
- 3 InsertRear(30);
- 4 DeleteFront();
- 5 InsertRear(40);
- 6 InsertRear(10);
- 7 DeleteRear().

```
/ Deterenear ( / )
8 InsertRear(15);
9 display();
```

- 10 30 10 15
- 20 30 40 15
- 20 30 40 10

0 10 30 40 15

CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Show solution

Ouestion No: 18

Multi Choice Type Question

Report Error

Consider the following pseudo-code. Assume that IntQueue is an integer queue. What does the function fun do?

```
void fun(int n)
 1
 2
        IntQueue q = new IntQueue();
 3
        q.enqueue(0);
 4
 5
        q.enqueue(1);
        for (int i = 0; i < n; i++)
 6
 7
8
            int a = q.dequeue();
9
            int b = q.dequeue();
            q.enqueue(b);
10
            q.enqueue(a + b);
11
            ptint(a);
12
13
14
    }
```

Prints numbers from 0 to n-1

Prints numbers from n-1 to 0

Prints first n Fibonacci numbers

CORRECT

Prints first n Fibonacci numbers in reverse order.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 19

Multi Choice Type Question

Report Error

Let Q denote a queue containing sixteen numbers and S be an empty stack. Head(Q) returns the element at the head of the queue Q without removing it from Q. Similarly Top(S) returns the element at the top of S without removing it from S. Consider the algorithm given below.

The maximum possible number of iterations of the while loop in the algorithm is_____

```
while Q is not Empty do

if S is Empty OR Top(S) \le Head(Q) then

x := Dequeue(Q);

Push(S,x);

else

x := Pop(S);

Enqueue(Q,x);

end

end
```

16

32

O 256 CORRECT

64

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 20 Multi Choice Type Question

Report Error

Suppose you are given an implementation of a queue of integers. The operations that can be performed on the queue are:

i. is Empty(Q) — returns true if the queue is Empty, false otherwise.

ii. delete (Q) — deletes the element at the front of the queue and returns its value.

iii. insert (Q, i) — inserts the integer i at the rear of the queue.

Consider the following function:

What operation is performed by the above function f?

```
void f (queue Q) {
int i;
if (!isEmpty(Q)) {
   i = delete(Q);
   f(Q);
   insert(Q, i);
}
}
```

- Leaves the queue Q unchanged
- Reverses the order of the elements in the queue Q CORRECT
- Deletes the element at the front of the queue Q and inserts it at the rear keeping the other elements in the same order
- Empties the queue Q

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Result & Analysis

Student: GUGAN S Email id: 727821tuit023Test: IRC_DSA THROUG Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 0 OS used: Windows Browser used: Chrome

Test Duration: 00:02:01 **Test Start Time:** Jun 4, 2022 | 09:48 AM

Test Submit Time: Jun 4, 2022 | 09:51 AM

Download

Overall score



Rank: NA

Topper score: 20.00 / 20
Average score: 18.72 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 19.32 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 1

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 19

Question Wrong: 1

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

Multi Choice Type Question

Report Error

Which of the following technique is faster for traveling in binary trees?



Iteration



Recursion	CORRECT
Both (A) and (B)	
Depends from compiler to	o compiler

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

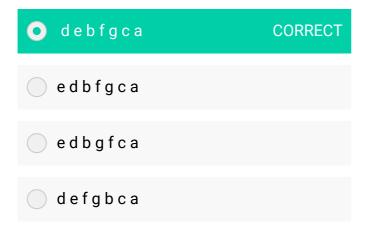
Subject: Tree traversal

Question No: 2

Multi Choice Type Question

Report Error

The inorder and preorder traversal of a binary tree is d b e a f c g and a b d e c f g, respectively. The postorder traversal of the binary tree is:



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 3

Multi Choice Type Question

Report Error

Heap exhibits the property of a binary tree?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 4

Multi Choice Type Question

Report Error

What is the major data structure used in hierarchical data model?

Trees	CORRECT
List	
Stack	
Graphs	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 5

Multi Choice Type Question

Report Error

Suppose that we have numbers between 1 and 1000 in a binary search tree and we want to search for the number 365. Which of the following sequences could not be the sequence of nodes examined?

- 4, 254, 403, 400, 332, 346, 399, 365
- 967, 913, 246, 925, 260, 364, 312
- 926, 203, 912, 241, 913, 246, 364CORRECT
- 4, 401, 389, 221, 268, 384, 383, 280, 365

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 6

Multi Choice Type Question

Report Error

Binary trees can have how many children?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 7

Multi Choice Type Question

Report Error

What are the children for node 'w' of a complete-binary tree in an array representation?

2w and 2w+1	CORRECT
2+w and 2-w	
w+1/2 and w/2	
w-1/2 and w+1/2	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 8 Multi Choice Type Question

What is the parent for a node 'w' of a complete binary tree in an array representation when w is not 0?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 9 Multi C

Multi Choice Type Question

Report Error

If the tree is not a complete binary tree then what changes can be made for easy access of children of a node in the array?

every node stores data saying which of its children exist in CORRECT the array
 no need of any changes continue with 2w and 2w+1, if node is at i
 keep a seperate table telling children of a node

use another array parallel to the array

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

with tree

Question No: 10 Multi Choice Type Question

Consider a situation of writing a binary tree into a file with memory storage efficiency in mind, is array representation of tree is good?

yes because we are overcoming the need of pointers and so space efficiency

yes because array values are indexable

 No it is not efficient in case of sparse trees and remaning CORRECT cases it is fine

No linked list representation of tree is only fine

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 11 Multi Choice Type Question

Report Error

Suppose the elements 7, 2, 10 and 4 are inserted, in that order, into the valid 3- ary max heap found in the above question, Which one of the following is the sequence of items in the array representing the resultant heap?

o 10, 7, 9, 8, 3, 1, 5, 2, 6, 4	CORRECT
10, 9, 8, 7, 6, 5, 4, 3, 2, 1	
10, 9, 4, 5, 7, 6, 8, 2, 1, 3	
10, 8, 6, 9, 7, 2, 3, 4, 1, 5	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 12 Multi Choice Type Question

What is common in three different types of traversals (Inorder, Preorder, and Postorder)?

Root is visited before right subtree

 Left subtree is always visited before right subtree

Root is visited after left subtree

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 13 Multi Choice Type Question

Report Error

What does the following function do for a given binary tree?
int fun(struct node *root)
{
 if (root == NULL)
 return 0;
 if (root->left == NULL && root->right == NULL)
 return 0;
 return 1 + fun(root->left) + fun(root->right);
}

Counts leaf nodes

Counts internal nodes

CORRECT

- Returns height where height is defined as number of edges on the path from root to deepest node
- Return diameter where diameter is number of edges on the longest path between any two nodes.

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 14

Multi Choice Type Question

Report Error

What output does the below pseudo code produces?

```
Tree_node function(Tree_node x)

{
    Tree_node y = x.left;
    x.left = y.right;
    y.right = x;
    return y;
}
```

right rotation of subtree

left rotation of subtree

zig-zag operation

zig-zig operation

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Hard

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 15

Multi Choice Type Question

Report Error

Statement 1: When a node is split during insertion, the middle key is promoted to the parent as well as retained in right half-node.

Statement 2: When a key is deleted from the leaf, it is also deleted from the non-leaf nodes of the tree.

6:39 PM		SKCI		
Statement 1 is true but statement 2 is false	CORRECT			
Statement 2 is true but sta false	atement 1 is			
Both the statements are tr	rue			
Both the statements are fa	alse			
Status: Correct Mark of Question type: MCQ Single Co Subject: Tree traversal	otained: 1/1 I		Level: Me Subject: Data St	
Question No: 16	Multi Choice	Type Question		Report Erroi
What is a complete binary tree?				
Each node has exactly zer children	o or two			
A binary tree, which is conwith the possible exception bottom level, which is filled left	n of the			
A binary tree, which is completely filled, with the possible exception of the bottom level, which is filled from left to right	CORRECT d			
None of the listed options				

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 17

Multi Choice Type Question

Report Error

Which of the following cannot generate the full binary tree?

Inorder and Preorder	
Inorder and Postorder	
Preorder and Postorder	

None of the listed options

Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Easy

CORRECT

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 18 Multi Choice Type Question

Report Error

Construct a binary tree using inorder and level order traversal given below.

Inorder Traversal: 3, 4, 2, 1, 5, 8, 9 Level Order Traversal: 1, 4, 5, 9, 8, 2, 3

0	CORRECT

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Binary tree

Question No: 19 Multi Choice Type Question

In simple chaining, what data structure is appropriate?

Singly linked list	
O Doubly linked list	CORRECT
Circular linked list	
Binary trees	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Question No: 20 Multi Choice Type Question

Report Error

Can a tree stored in an array using either one of inorder or post order or pre order traversals be again reformed?

yes just traverse through the array and form the tree

No we need one more traversal to form a tree

No in case of sparse trees

None of the listed options

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Tree traversal

Result & Analysis

Student: GUGAN S Email id: 727821tuit023Test: IRC_DSA THROUG Course: 2021_25 II_Dat

Attempt 1

IP Address: 117.239.103.181 Tab switches: 0 OS used: Windows Browser used: Chrome

Test Submit Time: Jun 4, 2022 | 09:54 AM

Download

Overall score



Rank: NA

Topper score: 20.00 / 20
Average score: 18.80 / 20

Least score: 0.00 / 20

MCQ



Rank: NA

Topper score: 20.00 / 20 **Average score**: 19.13 / 20

Least score: 0.00 / 20

Overall Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 17

Question Wrong: 3

Partially Correct: 0

Question Not Viewed: 0

MCQ - Question Status



Total Questions: 20

Questions Attempted: 20

Questions Correct: 17

Question Wrong: 3

Partially Correct: 0

Question Not Viewed: 0

Topic wise Analysis

MCQ



Question No: 1

Multi Choice Type Question

Report Error

Which of the following statements for a simple graph is correct?



Every path is a trail

CORRECT

Every trail is a path

Every trail is a path as well as every path is a trail

None of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

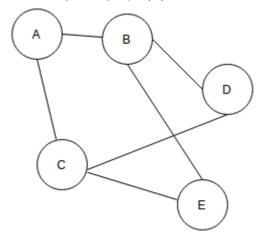
Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 2 Multi Choice Type Question

Report Error

For the given graph(G), which of the following statements is true?



G is a complete graph

G is not a connected graph

The vertex connectivity of the graph is 2

The edge connectivity of the graph is 1

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 3

Multi Choice Type Question

Report Error

If a simple graph G, contains n vertices and m edges, the number of edges in the Graph G'(Complement of G) is

o (n*n-n-2*m)/2	CORRECT
(n*n+n+2*m)/2	
(n*n-n*2*m)/2	
(n*n-n+2*m)/2	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 4

Which of the following is true?

Multi Choice Type Question

Report Error

A graph may contain no edges and many vertices

A graph may contain many edges and no vertices

CORRECT

A graph may contain no edges and no vertices

None of the mentioned

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

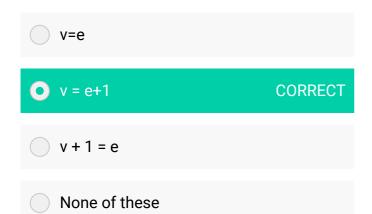
Subject: Graphs

Question No: 5

Multi Choice Type Question

Report Error

For a given graph G having v vertices and e edges which is connected and has no cycles, which of the following statements is true?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 6

Multi Choice Type Question

Report Error

Which of the following ways can be used to represent a graph?

- Adjacency List and Adjacency Matrix
- Incidence Matrix
- Adjacency List, Adjacency
 Matrix as well as Incidence CORRECT
 Matrix
- None of these

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 7

Multi Choice Type Question

Report Error

A graph having an edge from each vertex to every other vertex is called a

Tightly Connected	CORRECT
Strongly Connected	
Strongly Connected	
Loosely Connected	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 8 Multi Choice Type Question

Report Error

What is the maximum possible number of edges in a directed graph with no self loops having 8 vertices?



Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 9 Multi Choice Type Question

Report Error

What is the maximum number of edges present in a simple directed graph with 7 vertices if there exists no cycles in the graph?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 10 Multi Choice Type Question

Report Error

What is time complexity to check if a string(length S1) is a substring of another string(length S2) stored in a Directed Acyclic Word Graph, given S2 is greater than S1?

o 0(S1)	CORRECT
O(S2)	
O(S1+S2)	
O(1)	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

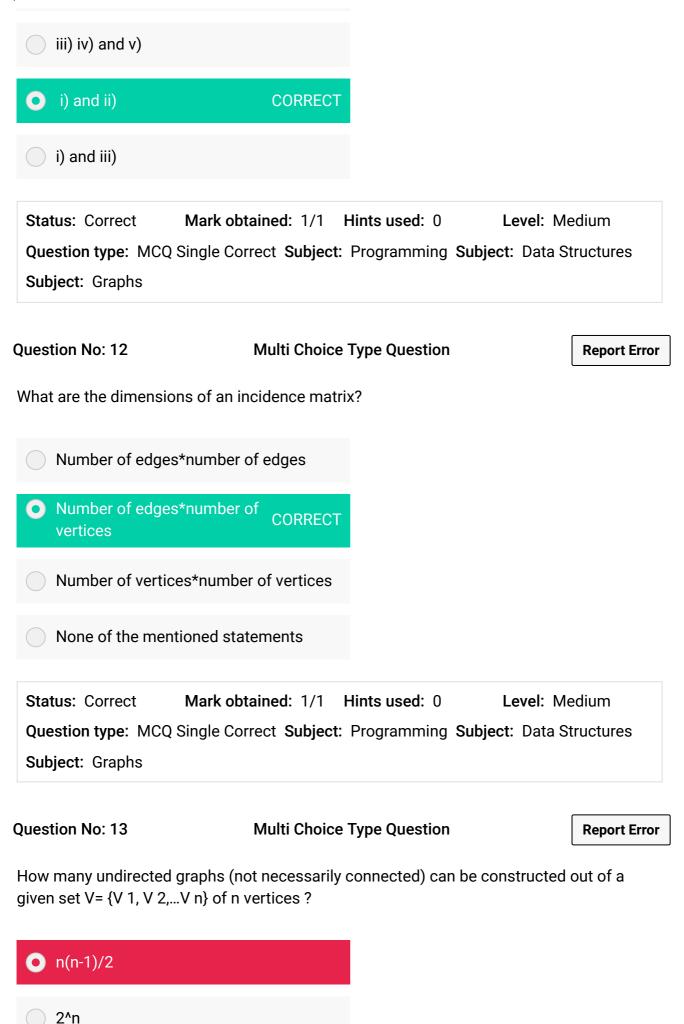
Subject: Graphs

Question No: 11 Multi Choice Type Question

Report Error

Which of the given symbols represent nodes having at least one child?

iv) and v)



n!				
2^(n(n-1)/2)	CORRECT			
Status: Wrong Question type: MCC Subject: Graphs	Mark obtained: 0/1 H Q Single Correct Subject :			
Question No: 14	Multi Choice 1	ype Question		Report Error
	aph with 20 vertices and 8 c nts in G should lie between	omponents. If	we delete a ve	rtex in G, then
8 and 20				
8 and 19				
• 7 and 19	CORRECT			
7 and 20				
Status: Correct Question type: MCC Subject: Graphs	Mark obtained : 1/1 H Q Single Correct Subject : I			
Question No: 15	Multi Choice 1	ype Question		Report Error
The data structure re	equired for Breadth First Tra	versal on a gra	aph is	
Stack				
Array				
Queue	CORRECT			

Tree

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 16 Multi Choice Type Question

Report Error

A connected planar graph having 6 vertices, 7 edges contains _____ regions.

15

O 3 CORRECT

1

11

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 17 Multi Choice Type Question

Report Error

Which of the following properties does a simple graph not hold?

0	Must be connected	CORRECT
	Must be unweighted	
	Must have no loops or multipl	e edges
	Must have no multiple edges	

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 18 Multi Choice Type Question

Report Error

What would be the number of zeros in the adjacency matrix of the given graph?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 19

Multi Choice Type Question

Report Error

In a simple graph, the number of edges is equal to twice the sum of the degrees of the vertices.



Status: Wrong Mark obtained: 0/1 Hints used: 0 Level: Easy

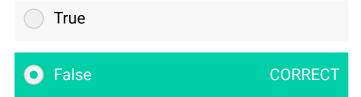
Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs

Question No: 20 Multi Choice Type Question

Report Error

Incidence matrix and Adjacency matrix of a graph will always have same dimensions?



Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Graphs