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2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySQL
3	Tour and Travel management System	React+Springboot+MySQL
4	Election commition of India (online Voting System)	React+Springboot+MySQL
5	HomeRental Booking System	React+Springboot+MySQL
6	Event Management System	React+Springboot+MySQL
7	Hotel Management System	React+Springboot+MySQL
8	Agriculture web Project	React+Springboot+MySQL
9	AirLine Reservation System / Flight booking System	React+Springboot+MySQL
10	E-commerce web Project	React+Springboot+MySQL
11	Hospital Management System	React+Springboot+MySQL
12	E-RTO Driving licence portal	React+Springboot+MySQL
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52	Online Child Adoption Portal Project	React+Springboot+MySQL
53	online Pizza Delivery System Project	React+Springboot+MySQL
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Spring Boot + React JS + MySQL Project List

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1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=IiOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FIzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynLouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5iF
10	Tour and Travel System Project version 2.0	https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

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11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSISm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWA OzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802i7N



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Question: 1

How many loops are there in C++ 98?

- (A) 2
- (B) 3
- (C) 4
- (D) 1

Show Ans

Ans: B

Hint:

There are three types in loops in C++ 98. After this C++ version, for loop with ranges was added in C++ 11. Check this link for C++ versions history - <https://www.cppbuzz.com/cpp-versions>

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 2

//What is the output of below C++ program?

```
#include <iostream>

int main()
{
    if(0)
    {
        std::cout<<"Hi";
    }
    else
    {
        std::cout<<"Bye";
    }
    return 0;
}
```

- (A) Hi
- (B) Bye
- (C) HiBye
- (D) Compilation Error

Show Ans

Ans: B

Hint:

if(0) evaluates to false condition that is why else condition is executed. In C++ programming 0 is false 1 is true.

Question: 3

What following operator is called
?: in C++?

- (A) Scope Resolution Operator
- (B) Conditional Operator
- (C) Ternary Operator
- (D) if else o/p

Show Ans

Ans: C

Hint:

?: is known as ternary operator. This can be used in place of if else conditions. This is one of the operator that can't be overloaded.

Question: 4

What is size of int data type in C++?

- (A) 2 Bytes
- (B) 4 Bytes
- (C) 1 Byte
- (D) Depends on Compiler

Show Ans

Ans: D

Hint:

If someone ask you the size of int, then you should say it depends on compiler. If it is 16 bits compiler like Turbo C++, the size is 2 bytes while if it is 32 bit compiler like Dev-C++, g++ or Visual Studio, the size is 4 bytes.

Question: 5

Which operator can not be overloaded in C++?

- (A) +
- (B) -
- (C) *
- (D) ::

Show Ans

Ans: D

Hint:

The operators :: (scope resolution), . (member access), .* (member access through pointer to member), and ?: (ternary conditional) cannot be overloaded.

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 6

Which operator has highest precedence in below list in C++?

- (A) +
- (B) -
- (C) ++
- (D) *

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 7

//What should be the output of below C++ program?

```
#include<iostream>

int main()
{
int a=10;
std::cout<<a++;
return 0;
}
```

- (A) 11
- (B) 10
- (C) Error
- (D) 0

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 8

Can we typecast void * into int * in C++?

- (A) Yes
- (B) No

- (C) Undefined
(D) Depends on Compiler

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: datatype in C++

Question: 9

What is correct syntax of a for loop in C++?

- (A) for(initialization;condition; increment/decrement)
(B) for(increment/decrement; initialization; condition)
(C) for(initialization, condition, increment/decrement
(D) None of These

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 10

//Find the output of below C++ program?

```
#include<iostream>

void Execute(int &x, int y = 200)
{
    int TEMP = x + y;
    x += TEMP;
    if(y!=200)
        std::cout<<TEMP<<x<<y<<"--";
}

int main()
{
    int A=50, B=20;
    std::cout<<A<<B<<"--";
    Execute(A,B);
    std::cout<<A<<B<<"--";
    return 0;
}
```

- (A) 5020--5020--
(B) 5020--7012020--12020--
(C) 5020--70120200--5020
(D) 5020--7050200--5020--

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: function in C++

Question: 11

Can we overload functions in C++?

- (A) Yes
- (B) No
- (C) Compilation Error
- (D) Runtime Error

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: function in C++

Question: 12

//How many times CppBuzz.com is printed in below C++ program?

```
#include<iostream>

int main()
{
    int i=0;
    lbl:
    std::cout<<"CppBuzz.com";
    i++;
    if(i<5)
    {
        goto lbl;
    }

    return 0;
}
```

- (A) Error
- (B) 5 times
- (C) 4 times
- (D) 6 times

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: loops in C++

Question: 13

//What is output of below C++ program?

```
#include<iostream>
```

```
int main()
{
    const int a=10;
    a++;
    std::cout<<a;
    return 0;
}
```

- (A) 10
(B) 11
(C) Compilation Error
(D) Linking Error

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 14

How to access and edit data in data file handling using structures

- (A) read()
(B) write()
(C) both A and B
(D) without read()

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: operators in C++

Question: 15

Among the operators *, /, and %, which one has the highest precedence?

- (A) *
(B) /
(C) %
(D) all have same precedence

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: operators in C++

Question: 16

Which operator has highest precedence?

- (A) ()
- (B) =
- (C) *
- (D) ++

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 17

//What is the value of a in below C++ program?

```
int main()
{
    int a, b=20;
    a = 90/b;
    return 0;
}
```

- (A) 4.5
- (B) 4.0
- (C) 4
- (D) Compilation Error

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 18

```

//What is the output of the following C++ program ?
#include<iostream>

class base
{
public:
    base()
    {
        cout<<"BCon";
    }
    ~base()
    {
        cout<<"BDest ";
    }
};

class derived: public base
{
public:
    derived()
    {   cout<<"DCon ";
    }
    ~derived()
    {   cout<<"DDest ";
    }
};

int main()
{
    derived object;
    return 0;
}

```

- (A) Dcon DDest
 (B) Dcon DDest BCon BDest
 (C) BCon DCon DDest BDest
 (D) BCon DCon BDDes DDest

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: classesAndobjects in C++

Question: 19

//What is the output of the below C++ program?

```

int main()
{
    int a = 10;
    cout<<a++;
    return 0;
}

```

- (A) 10
 (B) 11
 (C) 12
 (D) Not defined

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 20

What is the full form of oop

- (A) Object oriented programming
- (B) Oriented object programming
- (C) Office oriented programming
- (D) office objective programming

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: other in C++

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Question: 21

What is output of the below C++ program?

```
int main()
{
    int a=10;
    int b,c;
    b = a++;
    c = a;
    std::cout<<a<<b<<c;
    return 0;
}
```

- (A) 111011
- (B) 111111
- (C) 101011
- (D) 101010

[Show Ans](#)

Ans: A

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 22

Can a for loop contain another for loop?

- (A) No
- (B) Yes
- (C) Compilation Error
- (D) Runtime Error

[Show Ans](#)

Ans: B

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 23

Can a Structure contain pointer to itself?

- (A) Yes
- (B) No
- (C) Compilation Error
- (D) Runtime Error

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: structure in C++

Question: 24

What is size of void in bytes?

- (A) 1
- (B) 2
- (C) 4
- (D) 0

Show Ans

Ans: D

Compiler Level: Beginner Category of MCQ: datatype in C++

Question: 25

Can any function call itself?

- (A) Yes
- (B) No
- (C) Compilation Error
- (D) Runtime Error

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: function in C++

Question: 26

//What should be the output of below program?

```
#include<iostream>

int main()
{
    std::cout<<"CppBuzz":::;
    return 0;
}
```

- (A) Compilation Error
- (B) Runtime Error
- (C) CppBuzz
- (D) CppBuzz:::

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: other in C++

Question: 27

//What should be the output?

```
#include<iostream>
using namespace std;

int main() {
    int new = -10;
    std::cout<<"new is: "<<new;
    return 0;
}
```

- (A) new is: -10
- (B) new is: 10
- (C) Compilation Error
- (D) new is: 0

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 28

What should be the output of below program?

```
#include<iostream>

int main()
{
    int a = 1;
    switch(a)
    {
        case 1: std::cout<<"One";
        case 2: std::cout<<"Two";
        case 3: std::cout<<"Three";
        default: std::cout<<"Default";
    }
    return 0;
}
```

- (A) One
- (B) Compilation Error
- (C) Default
- (D) OneTwoThreeDefault

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: conditional in C++

Question: 29

What is size of void in C++?

- (A) 2 Bytes
- (B) 4 Bytes
- (C) Undefined
- (D) 0

Show Ans

Ans: D

Compiler Level: Expert Category of MCQ: loops in C++

Question: 30

C++ is superset of which language?

- (A) BASIC
- (B) VB
- (C) PASCAL
- (D) C

Show Ans

Ans: D

Compiler Level: Beginner Category of MCQ: other in C++

Question: 31

```
#include<iostream>

class Mycpp
{
    int Mycpp()
    {
        std::cout<<"Constructor";
        return 0;
    }
};

int main()
{
    Mycpp obj;
    return 0;
}
```

- (A) Constructor
- (B) 0
- (C) Compilation Error
- (D) Runtime Error

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: classesAndobjects in C++

Question: 32

```
#include<iostream>

class Mycpp
{
};

int main()
{
    Mycpp obj;
    return 0;
}
```

- (A) Compilation Error - Constructor Missing
- (B) Nothing would be printed
- (C) Undefined
- (D) In constructor

Show Ans

Ans: B

Question: 33

```
#include<iostream>

class X
{
public: X()
    { std::cout<<"X"; }
~X()
    { std::cout<<"~X"; }
};

class Y : public X
{
public: Y()
    { std::cout<<"Y"; }
~Y()
    { std::cout<<"~Y"; }
};

int main()
{
    Y obj;
    return 0;
}
```

- (A) XY~X~Y
(B) XY~Y~X
(C) X~XY~Y
(D) X~X~YY

Show Ans

Ans: B

Question: 34

```
#include<iostream>

int main()
{
    std::cout<<-1-1-1;

    return 0;
}
```

- (A) Compilation Error
(B) 0
(C) 3
(D) -3

Show Ans

Ans: D

Question: 35

When Virtual Table is created?

- (A) Every Class has VTable
- (B) Class inherited from other Class
- (C) When a Class Overrides the function of Base class
- (D) Class has atleast one Virtual Function

Show Ans

Ans: D

Question: 36

How many object can be created of a Class in C++?

- (A) 1
- (B) 5
- (C) There is no limit
- (D) 256

Show Ans

Ans: C

Question: 37

What is abstract class?

- (A) A class with abstract keyword
- (B) A class with no functions in it
- (C) A class with atleast one pure virtual function
- (D) Empty Class

Show Ans

Ans: C

Question: 38

What is the size of empty class?

- (A) 0
- (B) 1
- (C) 2
- (D) 4

[Show Ans](#)

Ans: B

Compiler Level: Practitioner Category of MCQ: datatype in C++

Question: 39

Can a class contain another class in it ?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: datatype in C++

Question: 40

Can we assign null to void pointer?

- (A) No
- (B) Yes

[Show Ans](#)

Ans: B

Compiler Level: Expert Category of MCQ: datatype in C++

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Question: 41

Can we create our own workspace?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: datatype in C++

Question: 42

When can we have two classes with same name?

- (A) We cant have
- (B) In different work space
- (C) Can have but in different file
- (D) We can have in any scenario

[Show Ans](#)

Ans: B

Compiler Level: Practitioner Category of MCQ: datatype in C++

Question: 43

Can we create array of reference?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: other in C++

Question: 44

Exceptions are Caught at ?

- (A) Compilation Time
- (B) Run Time
- (C) Linking Time
- (D) No

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: loops in C++

It is illegal to trade on Unauthorised Forex Trading platforms, beware of such platforms

Question: 45

Which of the following is Memory Leak detection tool?

- (A) GC++
- (B) KDevelop
- (C) GIT
- (D) Valgrind

Show Ans

Ans: D

Compiler Level: Expert Category of MCQ: new_delete in C++

Question: 46

Is const better than #define?

- (A) Yes
- (B) No

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: datatype in C++

Question: 47

Is it good idea to return an address or a reference of a local variable?

- (A) Yes
- (B) No

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: function in C++

Question: 48

How to stop Name Mangling in C++?

- (A) It is not possible
- (B) It is possible only with C code
- (C) By using extern "C" keyword
- (D) By Converting C++ code to C

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: function in C++

Question: 49

Can we create object of Abstract class?

- (A) Yes
- (B) No

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: abstract_class in C++

Question: 50

Is there any difference in below two statements?

```
int a = 10;  
int a(10);
```

- (A) Yes
(B) No

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: datatype in C++

Question: 51

Can we have Constructor in Abstract class?

- (A) Yes
(B) No

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: loops in C++

Question: 52

Can we have a reference to a pointer in C++?

- (A) Yes
(B) No

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: pointers in C++

Question: 53

Can we create pointer to Abstract class?

- (A) Yes
(B) No

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: abstract_class in C++

Question: 54

Can we create Nested classes in C++?

- (A) Yes
- (B) No

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: classesAndobjects in C++

It is illegal to trade on Unauthorised Forex Trading platforms, beware of such platforms

Question: 55

Can we reinitialize reference variable?

- (A) Yes
- (B) No

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: datatype in C++

Question: 56

Can we overload Constructor?

- (A) Yes
- (B) No

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: classesAndobjects in C++

Question: 57

What is VTable?

- (A) It contains VPTR
- (B) It contains address of Virtual function
- (C) It cotains address of Object
- (D) None of these

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: vtable in C++

Question: 58

Can this pointer point to another class?

- (A) Yes
- (B) No

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: classesAndobjects in C++

Question: 59

How many Access specifier are there in C++?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: inheritance in C++

It is illegal to trade on Unauthorised Forex Trading platforms, beware of such platforms

Question: 60

What is dangling pointer?

- (A) A pointer pointing to NULL
(B) Pointer pointing to memory location which has been freed
(C) Pointer which is pointing to new location
(D) None of these

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: pointers in C++

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Question: 61

Can we have Virtual Destructor ?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: virtual_func in C++

Question: 62

Can we have pure Virtual Destructor?

- (A) Yes
- (B) No
- (C) Depends on compiler

[Show Ans](#)

Ans: B

Compiler Level: Practitioner Category of MCQ: virtual_func in C++

Question: 63

Can we call virtual function using object?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Question: 64

Is it mandatory to override virtual function
in Derived class?

- (A) Yes
- (B) No

Show Ans

Ans: B

Question: 65

If a class(has one virtual function) has 5 Objects then how many Vtable it will have?

- (A) 5
- (B) 1
- (C) 0
- (D) Depends on Compiler

Show Ans

Ans: B

Question: 66

Can we have Pure Virtual Destructor?

- (A) Yes
- (B) No

Show Ans

Ans: B

Question: 67

Can we have constructor as Virtual?

- (A) Yes
- (B) No

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: virtual_func in C++

Question: 68

Is duplicate data allowed in set?

- (A) Yes
- (B) No

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 69

The underlying data structure used for std::map in C++ is?

- (A) AVL Tree
- (B) Binary Tree
- (C) Balance Binary Tree
- (D) None of these

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 70

Which STL container allows insertion and removal of data from any position?

- (A) Vector
- (B) Deque

- (C) Stack
(D) List

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 71

What is Singleton class?

- (A) We can create n number of object
(B) We can create max 256 objects
(C) We can create 1 object
(D) We cant create object

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: classesAndobjects in C++

Question: 72

Which one is more faster?

- A - #include <iostream.h>
B - #include "iostream.h"

- (A) A
(B) B
(C) Both has are same
(D) Depends on Compiler

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: other in C++

Question: 73

What is Self Referential Structure?

- (A) Structure which contains pointers
(B) Structure which has pointer to itself
(C) Structure which contains another structure
(D) None of these

Show Ans

Ans: B

Question: 74

Which operator has more precedence among the following?

*
++
+
-

- (A) *
(B) ++
(C) +
(D) -

Show Ans

Ans: B

Question: 75

Comma(,) is the operator which has least precedence among all operator.

- (A) Yes
(B) No

Show Ans

Ans: A

Question: 76

What should be output of below C++ program
if user enters a = 5?

```
int main()
{
    int a;
    cin>>a; // user can enter any value

    if (++a*5 <= 25)
    {
        cout<<"Hello";
    }
    else
    {
        cout<<"Bye";
    }
}
```

- (A) Hello
(B) Bye
(C) Undefined
(D) Compilation Error

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: conditional in C++

Question: 77

//Find the output of below program:-

```
int main()
{
    int i = 0, x = 0;

    do
    {
        if(i % 5 == 0)
        {
            std::cout<<x;
            x++;
        }

        ++i;
    }while(i<10);

    cout<<x;

    return 0;
}
```

- (A) 01
(B) 012

- (C) 0
(D) 0123

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: loops in C++

Question: 78

What should be printed on screen?

```
int main()
{
int x = 5;

if(x++ == 5)
cout<<"Five"<<endl;
else
if(++x == 6)
cout<<"Six"<<endl;

return 0;
}
```

- (A) FiveSix
(B) Five
(C) Six
(D) None of these

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: conditional in C++

Question: 79

```
#include<iostream>

int main()
{
int i=0, x=0;

for(i=1; i<10; i*=2)
{
    x++;
    std::cout<<x;
}
std::cout<<x;

return 0;
}
```

- (A) 1234567899
(B) 12345678910
(C) 123455
(D) 12344

Show Ans

Ans: D

Compiler Level: Expert Category of MCQ: loops in C++

Question: 80

How many times 'its a while loop' should be printed?

```
int main()
{
int i = 1;
i = i - 1;

while(i)
{
    cout<<"its a while loop";
    i++;
}

return 0;
}
```

- (A) 1
(B) 2
(C) 0
(D) Infinite Times

Show Ans

Ans: C

Compiler Level: Expert Category of MCQ: loops in C++

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Question: 81

```
//Assume all headers are included  
//What should be printed?
```

```
int main()  
{  
char Text[ ] = "Cpp@Buzz";  
  
for(int I=0; Text[I]!='\0';I++)  
{  
if(!isalpha(Text[I]))  
Text[I]='*';  
else if(isupper(Text[I]))  
Text[I]=Text[I]+1;  
else  
Text[I] = Text[I+1];  
}  
cout<<Text;  
  
return 0;  
}
```

- (A) *pp@*uzz
(B) CPP@BUZZ
(C) cpp@buzz
(D) Dp@*Czz

[Show Ans](#)

Ans: D

Compiler Level: Expert Category of MCQ: conditional in C++

Question: 82

//Find output of below program

```
#include<iostream>

int main()
{
int c1,c2;
int a = -8;
int b = 3;
c1 = --a + b;
c2 = a-- + b;
std::cout<<"c1="<<c1<<, "c2="<<c2<<endl;

return 0;
}
```

- (A) c1=-7,c2=-4
- (B) c1=-7,c2=-3
- (C) c1=-4,c1=b-3
- (D) c1=-6,c2=-6

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: operators in C++

Question: 83

How many times CppBuzz.com is printed here?

```
int main()
{
for(int i=0; i< 5; i++);
cout<<"CppBuzz.com";

return 0;
}
```

- (A) 0
- (B) 1
- (C) 4
- (D) 5

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 84

//Find the output of below program.

```
#include<iostream>

int main()
{
for(int i=1;i<=2;i++)
{
for(int j=i;j<=2;j++)
std::cout<<i<<@;
}
}
```

- (A) 1@2@
- (B) 1@2@1@
- (C) 1@1@2@
- (D) 1@2@2@

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: loops in C++

Question: 85

Which Exception is thrown when new fails to allocate memory?

- (A) std::exception
- (B) std::bad_alloc
- (C) std::runtime_error
- (D) std::out_of_range

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: other in C++

Question: 86

Which exception is thrown when dynamic_cast fails?

- (A) std::bad_typeid
- (B) std::logic_error
- (C) std::runtime_error
- (D) std::bad_cast

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: dynamic_cast in C++

Question: 87

Which is the Parent class for all exceptions?

- (A) std::bad_exception
- (B) std::logic_error
- (C) std::exception
- (D) std::runtime_error

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: exceptions in C++

Question: 88

What is the extention of the executable file produced after compiling C/C++ code using g++ on Linux?

- (A) .exe
- (B) .out
- (C) .lib
- (D) .a

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: other in C++

Question: 89

Which part of memory is used for the allocation of local variables declared inside any function.

- (A) Heap
- (B) Stack
- (C) Address Space
- (D) Depends on Compiler

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: new_delete in C++

Question: 90

Car contains Engine. What type of relationship is this?

- (A) IS-A relation
- (B) HAS-A relation
- (C) USES-A
- (D) PART-OF

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: classesAndobjects in C++

Question: 91

Are both of the preprocessor directives solving same purpose?

```
#include <iostream.h>  
  
#include "iostream.h"
```

- (A) Yes
- (B) No
- (C) Depends on compiler
- (D) None of these

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: other in C++

Question: 92

What is the latest version of C++?

- (A) C++ 03
- (B) C++ 11
- (C) C++ 14
- (D) C++ 17

Show Ans

Ans: D

Compiler Level: Expert Category of MCQ: other in C++

Question: 93

ISO/IEC 14882:1998 represents which version of C++?

- (A) C++ 03
- (B) C++ 98
- (C) C++ 0X
- (D) C++ 03

[Show Ans](#)

Ans: B

Compiler Level: Expert Category of MCQ: other in C++

Question: 94

Which of the following is Right Shift operator?

- (A) <
- (B) <<
- (C) ->
- (D) >>

[Show Ans](#)

Ans: D

Compiler Level: Beginner Category of MCQ: operators in C++

Question: 95

Which of the following is the least safe type casting in C++?

- (A) static_cast
- (B) const_cast
- (C) reinterpret_cast
- (D) dynamic_cast

[Show Ans](#)

Ans: C

Compiler Level: Expert Category of MCQ: typecasting in C++

Question: 96

Which keyword is used to write Assembly code within a C++ program?

- (A) ASM
- (B) asm
- (C) Not possible
- (D) Compiler specific

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: other in C++

Question: 97

```
#include<iostream>

int main()
{
if(-1 == -1){
std::cout<<"Hey..";
}
else{    std::cout<<"CppBuzz.com";
}

return 0;
}
```

- (A) Hey..
- (B) CppBuzz.com
- (C) Compilation Error
- (D) None of these

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: conditional in C++

Question: 98

C++ 17 is also known as __

- (A) C++ 0x
- (B) C++ 98
- (C) C++ 1z
- (D) C++ 11

Show Ans

Ans: C

Question: 99

Which version of C++ introduced keyword - constexpr?

- (A) C++0x
- (B) C++11
- (C) C++1z
- (D) C++20

Show Ans

Ans: B

Question: 100

Estimated C++ users?

- (A) 1 Million +
- (B) 2 Million +
- (C) 3 Million +
- (D) 4 Million +

Show Ans

Ans: D

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Question: 101

Which language is not a true object-oriented programming language?

- (A) VB.NET
- (B) VB 6
- (C) C++
- (D) C#

[Show Ans](#)

Ans: B

Compiler Level: Beginner Category of MCQ: other in C++

Question: 102

What do you understand by GUI?

- (A) Uses buttons, menus, and icons
- (B) Should be easy for a user to manipulate
- (C) Stands for Graphic Use Interaction
- (D) Both A and B

[Show Ans](#)

Ans: D

Compiler Level: Beginner Category of MCQ: other in C++

Question: 103

Which is not an integer data type?

- (A) Single
- (B) Byte
- (C) Short
- (D) Integer

[Show Ans](#)

Ans: A

Question: 104

A constructor is a special type of?

- (A) class
- (B) field
- (C) function
- (D) property

Show Ans

Ans: C

Question: 105

What is the best way to convert int to string according to C++ standard?

- (A) char *intStr = itoa(a); string str = string(intStr);
- (B) std::string s = std::to_string(42);
- (C) char stringNum[20]; int num=100; sprintf(stringNum,"%d",num);
- (D) None of the above

Show Ans

Ans: B

Question: 106

What is true ? when we explicitly declare a function to use the __fastcall convention.

- (A) Arguments are placed in registers
- (B) Arguments are placed in stack
- (C) Arguments are placed in Heap
- (D) None of the above

Show Ans

Ans: A

Question: 107

Which one of these is not calling convention?

- (A) cdecl
- (B) syscall
- (C) pascal
- (D) register

[Show Ans](#)

Ans: D

Compiler Level: Expert Category of MCQ: function in C++

Question: 108

Which file format is used in Binaries on Linux

- (A) ELF
- (B) DLLs
- (C) PE
- (D) None of the above

[Show Ans](#)

Ans: A

Compiler Level: Expert Category of MCQ: other in C++

Question: 109

What is the correct syntax for lambda expression in C++11?

- (A) [capture](parameters)-> return-type {body}
- (B) [parameters](capture)-> return-type {body}
- (C) [capture][parameters]-> return-type {body}
- (D) (capture)(parameters)-> return-type {body}

[Show Ans](#)

Ans: A

Compiler Level: Expert Category of MCQ: cpp11 in C++

Question: 110

Does below code compiles successfully on C++11?

```
class C
{
int a=7;

public:
    C();
};
```

(A) Yes

(B) No

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: cpp11 in C++

Question: 111

What is the purpose of 'default' keyword in C++ 11?

- (A) It instruct the compiler to set default value to any variable
- (B) It instruct the compiler to set default return value to any function
- (C) It instruct the compiler to set default argument values for any function
- (D) It instruct the compiler to generate the default implementation

Show Ans

Ans: D

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 112

What do you understand from lexical analysis?

- (A) Checking the Grammar
- (B) Finding the type of names and expressions
- (C) Making up tokens from characters
- (D) None of these

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: cpp11 in C++

Question: 113

In C++11 which data type is newly introduced among these?

- (A) long
- (B) long int
- (C) longs long
- (D) long long

Show Ans

Ans: D

Compiler Level: Beginner Category of MCQ: cpp11 in C++

Question: 114

Which keyword in C++ 11 is used to prevent a virtual function from being overridden?

- (A) final
- (B) static
- (C) stop
- (D) friend

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: cpp11 in C++

Question: 115

If C functions will be called from C++,
then C include files will use the following declaration.
is this True / False?

```
#ifdef __cplusplus
extern "C" {
#endif
```

//C function declarations

```
#ifdef __cplusplus
}
#endif
```

- (A) True
- (B) False

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: other in C++

Question: 116

The following code will fail to compile:

```
template <typename T, typename U>
void call_foo(T t, U u) {
    t.foo<U>(u);
}
```

How would you fix this?

- (A) t.foo template<U>(u);
- (B) t.foo<typename U>(u);
- (C) t.template foo<U>(u);
- (D) typename t.foo<U>(u);

Show Ans

Ans: C

Compiler Level: Expert Category of MCQ: other in C++

Question: 117

Which one of these is not a keyword?

- (A) do
- (B) sizeof()
- (C) goto
- (D) sqrt()

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: keyword in C++

Question: 118

C++ 11 introduces a new keyword. Find out that keyword.

- (A) pragma
- (B) override
- (C) wchar_t
- (D) mutable

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: cpp11 in C++

Question: 119

What is the use of mutable keyword?

- (A) It makes variable constant
- (B) There is no such keyword in C++
- (C) It allows a class data member to be modified even though it is the data member of a const object
- (D) None of these

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: keyword in C++

Question: 120

Why use register keyword in C++ code?

- (A) It saves the memory
- (B) It runs code faster by allocating variables in CPU register
- (C) It takes extra bytes of memory
- (D) Register variable are used with high configuration machines

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: keyword in C++

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Question: 121

Can a parameter be both const and volatile?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: keyword in C++

Question: 122

What is/are true statements about const volatile variables?

- (A) It is volatile because it can change at any time
- (B) It is const because our C program must not try to modify it
- (C) Change value outside by means outside our C program
- (D) All of these

[Show Ans](#)

Ans: D

Compiler Level: Practitioner Category of MCQ: keyword in C++

Question: 123

What is the advantage of local variable?

- (A) It saves memory
- (B) It releases memory once it goes out of scope
- (C) It increases execution time of program
- (D) None of these

[Show Ans](#)

Ans: B

Question: 124

Which one of these takes more memory?

- (A) Pass by Value
- (B) Pass by reference
- (C) Pass by pointer/address
- (D) Depends on Compiler

Show Ans

Ans: A

Question: 125

Which one of these is invalid file mode?

- (A) ios::trunc
- (B) ios::ate
- (C) ios::app
- (D) ios::tellg

Show Ans

Ans: D

Question: 126

Which one is correct syntax to use C++11 features while compilation?

- (A) g++ -std=c++11 -o output.out source.cpp
- (B) g++ -std=c++11 -o output.out source.cpp
- (C) g++ -std=c++ 11 -o output.out source.cpp
- (D) g++ -std=cpp11 -o output.out source.cpp

Show Ans

Ans: B

Question: 127

In the below program

```
int main(int argc, char *argv[]){  
    what would be the value of argv[argc]?
```

- (A) Filename
- (B) First argument
- (C) Last argument
- (D) NULL pointer

Show Ans

Ans: D

Compiler Level: Expert Category of MCQ: other in C++

Question: 128

Which one is true ?

- (A) We can create link using structure only
- (B) We can create link list using class only
- (C) We can create link list either by class or structure
- (D) We should ignore implementation of link list using structure as it consume more memory

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: other in C++

Question: 129

Which one of the following is correct syntax for nmake command?

- (A) nmake -f myfile option
- (B) nmake -f opiton myfile
- (C) nmake option -f myfile
- (D) nmake option -fname myfile

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: gcc_g++ in C++

Question: 130

What should be output of below program? program is compiled on g++ compiler.

```
#include<iostream>
using namespace std;

struct student{
    char a; char b; int c;
};

int main()
{
    cout<<sizeof(student);
    return 0;
}
```

- (A) 4
- (B) 6
- (C) 8
- (D) 12

Show Ans

Ans: C

Compiler Level: Expert Category of MCQ: structure in C++

Question: 131

```
#include<iostream>
using namespace std;

struct student{
    char a; int c;  char b;
};

int main()
{
    std::cout<<sizeof(student);
    return 0;
}
```

- (A) 4
- (B) 6
- (C) 8
- (D) 12

Show Ans

Ans: D

Compiler Level: Expert Category of MCQ: structure in C++

Question: 132

```
#include<iostream>

struct student{
    int a; char b; char c;
};

int main()
{
    std::cout<<sizeof(student);
    return 0;
}
```

- (A) 4
- (B) 6
- (C) 8
- (D) 12

Show Ans

Ans: C

Compiler Level: Expert Category of MCQ: structure in C++

Question: 133

Is below program of C++ 11 valid & runs without compilation error?

```
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

void print_square(int i)
{
    cout << i*i << endl;
}
int main()
{
    vector<int> v;
    // vector gets filled
    for_each(v.begin(), v.end(), print_square);
    return 0;
}
```

- (A) Yes
- (B) No
- (C) Depends on Compiler

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: cpp11 in C++

Question: 134

Is this valid C++ 11 program & get compiled without any error?

```
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

int main() {

    vector<int> v;
    // vector gets filled

    for_each(v.begin(), v.end(),
        [] (int i) { cout << i*i << endl; });

    return 0;
}
```

- (A) Yes
(B) No

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: cpp11 in C++

Question: 135

Find the output of below program

```
#include <iostream>
using namespace std;
enum color{
    Black,
    blue,
    red
};
int main()
{
    color obj = blue;
    cout << obj;
    return 0;
}
```

- (A) blue
(B) 2
(C) 1
(D) None of these

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: enum in C++

Question: 136

```
#include<iostream>

enum color{
    black=1,
    blue,
    red
};
int main()
{
    color obj = blue;
    std::cout<<obj;
    return 0;
}
```

- (A) blue
(B) Compilation Error
(C) 1
(D) 2

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: enum in C++

Question: 137

```
#include<iostream>
using namespace std;
enum color{
    black=1,
    blue,
    red
};
int main()
{
    color obj = yellow;
    cout<<obj;
    return 0;
}
```

- (A) yellow
(B) black
(C) Compilation Error
(D) 3

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: enum in C++

Question: 138

```
#include<iostream>
using namespace std;
enum color{
    black,
    blue,
    red
};
int main()
{
    color obj;
    cout<<obj;
    return 0;
}
```

- (A) black
(B) 0
(C) -1
(D) Some Garbage Value

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: enum in C++

Question: 139

What should be the output of below program? Please note all programs are compiled on GCC compiler.

```
#include<iostream>
using namespace std;
enum color{
    black,
    blue,
    red
};
int main()
{
    color obj;
    cout<<sizeof(obj);
    return 0;
}
```

- (A) 0
(B) 1
(C) 2
(D) 4

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: enum in C++

Question: 140

```
#include<iostream>

enum color{
    black=-5,
    blue,
    red
};
int main()
{
    color obj = blue;
    std::cout<<obj;
    return 0;
}
```

(A) Compilation Error

(B) 0

(C) 1

(D) -4

[Show Ans](#)

Ans: D

Compiler Level: Practitioner Category of MCQ: enum in C++

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Question: 141

```
#include<iostream>

enum color{
    black=-5,
    blue,
    red
};
int main()
{
    color obj = blue;
    std::cout<<obj;
    return 0;
}
```

- (A) Compilation Error
- (B) 0
- (C) 1
- (D) -4

[Show Ans](#)

Ans: D

Compiler Level: Practitioner Category of MCQ: enum in C++

Question: 142

The data elements in structure are also known as ?

- (A) data
- (B) members
- (C) objects
- (D) none of these

[Show Ans](#)

Ans: B

Compiler Level: Beginner Category of MCQ: structure in C++

Question: 143

How many elements we can have in any structure?

- (A) 128
- (B) 256
- (C) 1024
- (D) None of the above

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: structure in C++

Question: 144

Can we initialize structure's elements in structure itself?

- (A) Yes
- (B) No
- (C) Depends on Compiler

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: structure in C++

Question: 145

In place of structure which other data type can be used in programming?

- (A) int
- (B) float
- (C) class
- (D) enum

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: structure in C++

Question: 146

Can we declare structure inside structure?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: structure in C++

Question: 147

Can we typedef in declaring structure?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: structure in C++

Question: 148

Which operator is used to access the namespace?

- (A) :?
- (B) ::
- (C) ->
- (D) .

[Show Ans](#)

Ans: B

Compiler Level: Practitioner Category of MCQ: namespace in C++

Question: 149

What is the correct syntax to access any variable of Namespace?

- (A) namespace::
- (B) namesspace.a
- (C) namespace->a
- (D) namespace:a

[Show Ans](#)

Ans: A

Question: 150

Which header file is used to only read files in C++?

- (A) <iostream>
- (B) <ofstream>
- (C) <ifstream>
- (D) <fstream>

Show Ans

Ans: C

Question: 151

Which header file is used to write data into file?

- (A) <ofstream>
- (B) <outstream>
- (C) <iostream>
- (D) <ostream>

Show Ans

Ans: A

Question: 152

Header file used to perform both read & write operations on files in C++?

- (A) <ofstream>
- (B) <ifstream>
- (C) <fstream>
- (D) <iostream>

Show Ans

Ans: C

Question: 153

Which mode of the following will append the file if it already exist in C++?

- (A) ios :: out
- (B) ios :: app
- (C) ios :: in
- (D) ios::end

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: filehandling in C++

Question: 154

If I want use multiple modes in open() function while file handling then which operator is used for this?

- (A) ios::out | ios::in
- (B) ios::out, ios::in
- (C) ios::out || ios::in
- (D) ios::out & ios::in

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: filehandling in C++

Question: 155

Why seekg() is used in file handling of C++

- (A) Moves get pointer (input) to a specified location
- (B) Moves put pointer (output) to a specified location
- (C) Gives the current position of the get pointer
- (D) Gives the current position of the put pointer

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: filehandling in C++

Question: 156

Why use seekp() in file handling of C++?

- (A) Moves get pointer (input) to a specified location
- (B) Moves put pointer (output) to a specified location
- (C) Gives the current position of the get pointer
- (D) Gives the current position of the put pointer

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: filehandling in C++

Question: 157

What is the roll of tellg() in C++ file handling?

- (A) Moves get pointer (input) to a specified location
- (B) Moves put pointer (output) to a specified location
- (C) Gives the current position of the get pointer
- (D) Gives the current position of the put pointer

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: loops in C++

Question: 158

What is the role of tellp() in C++ file handling?

- (A) Gives the current position of the put pointer
- (B) Gives the current position of the get pointer
- (C) Moves put pointer (output) to a specified location
- (D) Moves get pointer (input) to a specified location

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: filehandling in C++

Question: 159

The statement structure that is NOT a looping is:

- (A) For
- (B) Do...While
- (C) If
- (D) While

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 160

A process of repeating the workflow is called ...

- (A) Branching
- (B) Looping
- (C) Rekursif
- (D) Algorithm

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 161

Which of the following is not a C++ Library?

- (A) QT
- (B) SDL
- (C) WxWidget
- (D) Bootstrap

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: other in C++

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Question: 161

Which is the correct command used to compile source code (.cpp files) into object code(.o files)?

- (A) g++ -o <filename>
- (B) g++ -c <filename>
- (C) g++ <filename>
- (D) g++ -f <filename>

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: gcc_g++ in C++

Question: 162

GCC compiler is known as?

- (A) The GNU C compiler
- (B) GNU C compiler
- (C) Generic C compiler
- (D) GDB C Compiler

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: gcc_g++ in C++

Question: 163

The command nm on linux lists few symbols. What symbol 'D'represents?

✓ (A) Normal Data Section

Ans: C

Compiler Level: Expert Category of MCQ: other in C++

Question: 164

```
#include<iostream>
using namespace std;

int main()
{
    int x = 9;
    while (x>0)
        x--;
    cout<<x;

    return 0;
}
```

- (A) 9876543210
- (B) 987654321
- (C) 9
- (D) 0

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: loops in C++

Question: 165

```
//How many times will A be printed ?

class A
{

public:
    ~A(){
        std::cout <<"A";
    }
};

int main()
{
    A obj;
    obj.~A();
}
```

- (A) 0
- (B) 1
- ✓ (C) 2

Question: 166

Which of the following is not a C++ 17 library feature?

- (A) std::variant
- (B) std::optional
- (C) std::string_view
- (D) None of the above

Show Ans

Ans: D

Question: 167

Is this a valid syntax in C++ 17?

```
namespace A::B::C {  
    int i;  
}
```

- (A) Yes
- (B) No

Show Ans

Ans: A

Question: 168

Is this a valid UTF-8 character literal?

```
char x = u8'x';
```

- (A) Yes
- (B) No

Show Ans

Ans: A

Question: 169

Lambda expression are feature of which C++ version?

- (A) C++11
- (B) C++14
- (C) C++ 17
- (D) C++20

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: cpp14 in C++

Question: 170

Which C++ version support Digit Separators 1'000'000?

- (A) C++11
- (B) C++14
- (C) C++17
- (D) C++20

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: cpp20 in C++

Question: 171

Which version of C++ added feature of auto for return type of functions?

- (A) C++11
- (B) C++14
- (C) C++17
- (D) C++20

Show Ans

Ans: B

Compiler Level: Expert Category of MCQ: cpp20 in C++

In which version of C++ auto was limited to lambda functions?

- (A) C++11
- (B) C++14
- (C) C++17
- (D) C++20

Show Ans

Ans: A

Compiler Level: Expert Category of MCQ: cpp20 in C++

Question: 173

What is the correct way to initialize vector in C++?

- (A) std::vector<integer> vecOfInts;
- (B) std::vector int <vecOfInts>
- (C) std::vector(int) vecOfInts;
- (D) std::vector<int> vecOfInts;

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 174

What is true about his statement in C++?

std::vector<int> vecInts(5);

- (A) Initialize a Vector with 5 int & all default value is 0
- (B) Initialize a Vector with 5 int
- (C) Initialize a Vector with 5 int & all default values will be garbage
- (D) Initialize a Vector with 5 int & All default value with be -1

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: stl in C++

Is it possible to initialize any Vector with an Array in C++?

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 176

Will below program run without any compilation errors?
Assume that all header files are included.

```
int main()
{
    std::list<std::string> listOfStr;
    listOfStr.push_back("1");
    listOfStr.push_back("2");
    listOfStr.push_back("3");
    listOfStr.push_back("4");

    // Initialize a vector with std::list
    std::vector<std::string> vecOfStr(listOfStr.begin(),listOfStr.end());

    for(std::string str : vecOfStr)
        std::cout << str << std::endl;

    return 0;
}
```

- (A) Yes
- (B) No

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 177

Code with arrays in 8007592194

What should be the output of below program? Assume that all header files are included.

```
int main()
{
std::list<std::string> listOfStr;
listOfStr.push_back("1");
listOfStr.push_back("2");
listOfStr.push_back("3");
listOfStr.push_back("4");

// Initialize a vector with std::list
std::vector<std::string> vecOfStr(listOfStr.begin(), listOfStr.end());

for(std::string str : vecOfStr)
    std::cout << str;

return 0;
}
```

- (A) 1 2 3 4
- (B) 1234
- (C) 12340
- (D) 01234

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: stl in C++

Question: 178

What does this function do?

```
void func() {
    std::vector<std::string> vecOfString(5, "Hi");

    for (std::string str : vecOfString)
        std::cout << str << std::endl;
}
```

- (A) Initialize vect to 5 string with value "Hi"
- (B) Initialize vect's first element to a string with value "Hi" & prints them
- (C) Initialize vect to 1 string with value "Hi" & prints only one
- (D) Initialize vect to 5 string with value "Hi" & prints them

Show Ans

Ans: D

Question: 179

Correct syntax for creating a thread using Function Pointer?
thread_function is the name of function which need to be executed
in separate thread.

- (A) std::thread threadObj(thread_function);
- (B) std::thread threadObj(&thread_function);
- (C) std::thread threadObj((void *)thread_function);
- (D) std::thread threadObj(thread_function());

[Show Ans](#)

Ans: A

Compiler Level: Expert Category of MCQ: cpp11 in C++

Question: 180

A struct can contain members of various data types

- (A) TRUE
- (B) FALSE

[Show Ans](#)

Ans: A

Compiler Level: Beginner Category of MCQ: structure in C++

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Question: 241

If no handler at any level catches the exception, terminate() will be called and program will terminate

- (A) True
- (B) False

[Show Ans](#)

Ans: A

Compiler Level: Practitioner Category of MCQ: exceptions in C++

Question: 242

void some_function() throw ();

How does above function behaves?

- (A) Function declaration has error
- (B) Behaviour is unknown
- (C) Function will throw only standard exceptions defined in <exception>
- (D) Function will not throw any exception

[Show Ans](#)

Ans: D

Compiler Level: Practitioner Category of MCQ: exceptions in C++

Question: 243

In C++ only synchronous exception can be handled

- (A) True
- (B) False

[Show Ans](#)

Ans: A

Compiler Level: Beginner Category of MCQ: loops in C++

Question: 244

```
#include<iostream>
using namespace std;

class Country{
private: int population;

public: void setPopulation(int pop){
    this->population = pop;
}
int getPopulation(){
    return this->population;
}
};

class USA: private Country{

};

int main(){
USA obj;
obj.setPopulation(100);
cout<<obj.getPopulation();
return 0;
}
```

- (A) 100
- (B) 0
- (C) Compilation Error
- (D) Garbage Value is printed

Show Ans

Ans: C

Compiler Level: Expert Category of MCQ: inheritance in C++

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Question: 245

```
#include<iostream>
#include<string.h>
using namespace std;

int main()
{
    char one[]="one";
    char two[]="two";

    if(one==two){
        cout<<"Equal";
    }

    if(strcmp(one, two)==0){
        cout<<"Equal";
    }
    else
    {
        cout<<"NotEqual";
    }

    return 0;
}
```

- (A) Equal
(B) EqualEqual
(C) EqualNotEqual
(D) NotEqual

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: conditional in C++

Question: 246

Can we have nested namespaces in C++?

- (A) Yes
(B) No

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: namespace in C++

Question: 247

What should be the location of "using namespace std;" in c++ code?

- (A) Before all #include
(B) After #include<iostream>

- (C) In middle of #includes
- (D) After all #includes

Show Ans

Ans: D

Compiler Level: Beginner Category of MCQ: namespace in C++

Question: 248

```
//What is different between these two lines?  
using namespace std;  
using std::cout;
```

- (A) Using the entire namespace, using only single name from namespace
- (B) There is no difference
- (C) We can't use only cout from std namespace

Show Ans

Ans: A

Compiler Level: Beginner Category of MCQ: namespace in C++

Question: 249

```
#include<iostream>  
#define killer using  
  
killer namespace std;  
  
int main(){  
    std::cout<<"CppBuzz.com";  
    return 0;  
}
```

- (A) Runtime Error
- (B) Compilation Error
- (C) Nothing is printed
- (D) CppBuzz.com

Show Ans

Ans: D

Compiler Level: Beginner Category of MCQ: namespace in C++

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Question: 250

//How this code would behave?

```
#include<iostream>
#include<exception>
using namespace std;

class cppbuzz{

public:
    cppbuzz(){
        cout<<"constructor.";
        int a;
        throw a;
    }
    ~cppbuzz(){
        cout<<"destructor.";
    }
};

int main()
{
    cppbuzz *ptr = new cppbuzz();
    delete ptr;

    return 0;
}
```

- (A) Program is terminated without printing anything on console
(B) Prints 'constructor' and then it is terminated
(C) constructor.destructor. but ptr is never freed
(D) constructor.destructor. And ptr is freed

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: pointers in C++

Question: 251

Select true statement about weak_ptr of C++ 11

- (A) C++11's weak_ptrs are used with shared_ptrs.
(B) C++11's weak_ptrs can be used without weak_ptrs
(C) C++11's weak_ptrs are replacement of unique_ptr
(D) C++11's weak_ptrs are used for unique ownership

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: pointers in C++

Question: 252

Select the false statement about shared_ptr

- (A) We can only use these smart pointers to refer to objects allocated with new
- (B) It is recommended that you do not use both 2 shared_ptr and raw pointer on the same object
- (C) It can't be copied or assigned to another shared_ptr
- (D) We can also reset a shared_ptr by assigning it the value nullptr

Show Ans

Ans: C

Compiler Level: Practitioner Category of MCQ: pointers in C++

Question: 253

Is there any error in following code?

```
unique_ptr<XYZ> ptr1 (new XYZ);
unique_ptr<XYZ> ptr2(ptr1);
```

- (A) This is valid code snippet with no error
- (B) Error: Copy construction is not allowed at line 2
- (C) Error: Assignment is not allowed at line 2
- (D) Error: Runtime exception

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: pointers in C++

Question: 254

How to transfer the ownership of unique_ptrs?

- (A) We can't transfer the ownership of unique pointers
- (B) It is possible using copy constructor - unique_ptr<Thing> ptr2(ptr1);
- (C) ptr2 = std::move(ptr1);
- (D) ptr2 = ptr1

Show Ans

Ans: C

Compiler Level: Expert Category of MCQ: pointers in C++

Question: 255

Find the output of following code

```
#include <iostream>

using namespace std;

int main(){

    int * ptr = new int;
    cout<<ptr<<" | "<<*ptr;
    return 0;

}
```

- (A) Address of memory allocated | Garbage Value
- (B) Address of memory allocated | 0
- (C) Address of ptr | 0
- (D) Address of ptr | Garbage Value

Show Ans

Ans: B

Compiler Level: Beginner Category of MCQ: new_delete in C++

Question: 256

How this C++ code behaves?

```
#include <iostream>

using namespace std;

int main(){

    int * ptr = NULL;
    ptr++;
    delete ptr;
    return 0;
}
```

- (A) Program runs without any error
- (B) Compilation Error
- (C) Runtime error (Segmentation fault)
- (D) None of the above

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: new_delete in C++

Question: 257

Which of the following Exception is thrown by C++ 'new' when there is no memory available to allocate?

- (A) bad_exception
- (B) overflow_error
- (C) out_of_range
- (D) bad_alloc

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: new_delete in C++

Question: 258

Code with arrays in 8007592194

```

// find the output of below program if user enters: 2 2 2
#include<iostream>
using namespace std;

class Rectangle
{
protected:
int length,width,area;
public:
void getdata()
{
cout<<"enter data :";
cin>>length>>width;
}
void print()
{
area=length*width;
cout<<area;
}

};

class cube : public Rectangle
{
int height,volume;
public:
void getdata()
{
cout<<"enter height, length,width : ";
cin>>height>>length>>width;
}
void dprint()
{
volume=length*height*width;
cout<<volume;
}
};

int main()
{
cube c;
c.getdata();
c.print();
c.dprint();
return 0;
}

```

Code with arrays in 8007592194

- (A) 08
- (B) 04
- (C) 84
- (D) 48

Show Ans

Compiler Level: Practitioner Category of MCQ: inheritance in C++

Question: 259

//find the output of below c++ program

```
#include<iostream>
using namespace std;

class base{
public:
void hello(){
    cout<<"base";
}
};

class derived: private base{

};

int main()
{
derived obj;
obj.hello();
return 0;
}
```

- (A) base
- (B) Nothing is printed
- (C) basebase
- (D) None of the Above

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: inheritance in C++

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Question: 260

```

#include<iostream>
using namespace std;

class cppbuzz_base{
public:

void hello(){
    cout<<"Hello Base ";
}
};

class derived: public cppbuzz_base{
public:

void hello(){
    cout<<"Hello Derived ";
}
};

int main()
{
derived obj;
cppbuzz_base baseObj = cppbuzz_base(obj);
baseObj.hello();
return 0;
}

```

- (A) Hello Derived
(B) Hello Base
(C) Hello Derived Hello Base
(D) Hello Base Hello Derived

[Show Ans](#)

Ans: B

Compiler Level: Practitioner Category of MCQ: typecasting in C++

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Question: 261

```
#include<iostream>
using namespace std;

class cppbuzz_base{
public:

    void hello(){
        cout<<"Hello Base ";
    }
};

class derived: public cppbuzz_base{
public:

    void hello(){
        cout<<"Hello Derived ";
    }
};

int main()
{
    cppbuzz_base baseObj;
    derived obj = derived(baseObj);
    obj.hello();
    return 0;
}
```

- (A) Hello Derived
(B) Hello Base
(C) Hello Derived Hello Base
(D) Error: not matching func to call 'derived::derived(cppbuzz_base&)'


[Show Ans](#)

Ans: D

Compiler Level: Practitioner Category of MCQ: typecasting in C++

Question: 262

▼

//find the output of below code on Singleton class

```
#include <iostream>

class Singleton
{
    private:
        static Singleton* instance;
        Singleton();

    public:
        static Singleton* getInstance();
};

Singleton* Singleton::instance = 0;

Singleton* Singleton::getInstance()
{
    if (instance == 0)
    {
        instance = new Singleton();
    }

    return instance;
}

Singleton::Singleton()
{}

int main()
{
    Singleton* one = Singleton::getInstance();
    Singleton* two = Singleton::getInstance();

    if (one == two)
        std::cout << "Both pointers hold same object";
    else
        std::cout << "They don't hold same object";

    return 0;
}
```

Code with arrays in 8007592194

- (A) Both pointers hold same object
- (B) They don't hold same object
- (C) Compilation Error
- (D) Exception occurred

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: singleton in C++

Question: 263

Note: Mandatory steps to follow while declaring Singleton class

1. Private Constructor
2. Private Copy Constructor : Not Implemented
3. Private Assignment Operator: Not Implemented

- (C)
(D)

Show Ans

Ans: B

Compiler Level: Practitioner Category of MCQ: singleton in C++

Question: 264

```
#include<iostream>

class cppbuzz{

public:
    cppbuzz(){
        std::cout << "cppbuzz";
    }
    ~cppbuzz(){
        std::cout << "~cppbuzz";
    }

    virtual void myfunc() = 0;
};

int main(){
    cppbuzz obj;
    return 0;
}
```

- (A) error: cannot declare variable 'obj' to be of abstract type 'cppbuzz'
(B) cppbuzz
(C) ~cppbuzz
(D) cppbuzz~cppbuzz

Show Ans

Ans: A

Compiler Level: Practitioner Category of MCQ: abstract_class in C++

Question: 265

```
//if the size of a is 4 bytes then find the output of below code

#include<iostream>

class cppbuzz{
private: int a;
public: virtual void myfunc()=0;
};

int main(){
    std::cout << sizeof(cppbuzz);
    return 0;
}
```

Ans: D

Compiler Level: Expert Category of MCQ: abstract_class in C++

Question: 266

Virtual base classes are used in virtual inheritance in a way of preventing multiple "instances" of a given class appearing in an inheritance hierarchy when using multiple inheritances. (True or False)

- (A) True
(B) False

Show Ans

Ans: A

Compiler Level: Practionar Category of MCQ: virtual_func in C++

Question: 267

```
#include<iostream>
using namespace std;

class Test
{
private: int x, y;
public:
    Test():y(10),x(y+10)
    {
    }

    void print()
    {
        cout<<x<<", "<<y;
    }
};

int main()
{
Test *a = new Test();
a->print();

delete a;

return 0;
}
```

- (A) Compilation Error
(B) 10, 20
(C) 10, 10
(D) 10, Undfefined Value

Show Ans

Ans: C

Hint:

Study Initialization List



What is the time complexity of the following C++ code?

```
int sum;
int i = 0;
int j = N;

while (i <= j) {
    sum = sum + i;
    i++;
}
```

- (A) O(log N)
- (B) O(N/2)
- (C) O(N)
- (D) O(N^2)

Show Ans

Ans: C

Compiler Level: Beginner Category of MCQ: time_space_complexity in C++

Question: 269

What is the time complexity of the following C++ code?

```
for(int var = 0; var<=N; )
{
    cout<<var<<endl;
    var = var + 2;
}
```

- (A) Compilation error
- (B) O(logN)
- (C) O(N/2)
- (D) O(N)

Show Ans

Ans: D

Compiler Level: Practitioner Category of MCQ: time_space_complexity in C++

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Question: 270

What is the time complexity of the following C++ code?

```
int myFunction(int N, int M)
{
    for(int k=5; k<=N; k++)
    {
        cout<<k*2;
    }

    for(int l=5; l<=N; l++)
    {
        cout<<l*3;
    }
    return 0;
}
```

- (A) O(2N)
- (B) O(N)
- (C) O(N+N)
- (D) O(N*N)

Show Ans

Ans: B

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

Question: 271

What is the time complexity of the following C++ code?

```
int myFunction(int N, int M)
{
    for(int k=5; k<=N; k++)
    {
        cout<<k*2;
    }

    for(int l=5; l<=M; l++)
    {
        cout<<l*3;
    }
    return 0;
}
```

- (A) O(N+M)
- (B) O(N*M)
- (C) O(N)
- (D) O(M)

Show Ans

Ans: A

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

Question: 272

▼

What is the time complexity of the following C++ code?

```
int myFunction(int N)
{
    for(int i=0; i<=N; i++)
    {
        for(int j=0; j<=i; j++)
        {
            cout<<"CppBuzz";
        }
    }
    return 0;
}
```

- (A) O(N)
- (B) O(NlogN)
- (C) O(N²)
- (D) O(N³)

Show Ans

Ans: C

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

Question: 273

What is the time complexity of the following C++ code?

```
int myFunction(int N, int M)
{
    M=999;
    for(int i=0; i<=M; i=i+9;)
    {
        for(int j=0; j<=N; j++)
        {
            cout<<"CppBuzz";
        }
    }
    return 0;
}
```

- (A) O(111*N)
- (B) O(NlogN)
- (C) O(1)
- (D) O(N)

Show Ans

Ans: D

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

Question: 274



What is the time complexity of the following C++ code?

```
int myFunction(int N, int M)
{
    M=0;
    for(int i=0; i<=N; i=i*M)
    {
        cout<<"CppBuzz";
    }
    return 0;
}
```

- (A) O(N)
- (B) O(logN)
- (C) O(sqrt(N))
- (D) O(∞)

Show Ans

Ans: D

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

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Question: 275

What is the time complexity to print all N elements of any integer array in C++?

- (A) O(LogN)
- (B) O(1)
- (C) O(N)
- (D) O(N longN)

Show Ans

Ans: C

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

Question: 276



What is the time & Space complexity below the C++ function?

```
void reversePartofArray(int Arr[], int Start, int End)
{
    int tempStart = Start;
    int tempEnd = End;

    while(tempStart < tempEnd)
    {
        int temp = Arr[tempStart];
        Arr[tempStart] = Arr[tempEnd];
        Arr[tempEnd] = temp;

        tempStart += 1;
        tempEnd -= 1;
    }
}
```

- (A) O(LogN) , O(N)
(B) O(N), O(N)
(C) O(N), O(1)
(D) O(N), O(0)

Show Ans

Ans: C

Compiler Level: Practionar Category of MCQ: time_space_complexity in C++

Question: 277

Which of the following storage class was introduced in C++ ?

- (A) extern
(B) extern
(C) auto
(D) mutable & thread_local

Show Ans

Ans: D

Hint:

mutable: This storage class is applicable only to non-static class members. It allows the member to be modified even if the containing object is declared as const.

thread_local: This storage class is used to declare variables with thread-local storage. Each thread has its own copy of the variable, and the variable's value is preserved across different function calls within the same thread.

Compiler Level: Practionar Category of MCQ: storgeclass in C++

Question: 278

what is the default value of str variable in below C++ code?

```
class MyClass {
public:
    std::string str;
};
```

- (C) empty value
(D) indeterminate or garbage value

Show Ans

Ans: C

Hint:

When you define a string variable without explicitly assigning a value, it is automatically initialized as an empty string.

Compiler Level: Practionar Category of MCQ: storgeclass in C++

Question: 279

What should be the output of below C++ code?

```
#include <iostream>

class MyClass {
public:
    void display() {
        std::cout << "I am a const object." << std::endl;
    }
};

int main() {
    const MyClass obj;
    obj.display();
    return 0;
}
```

- (A) I am a const object.
(B) Compilation Error
(C) Runtime Error
(D) I am a const object.

Show Ans

Ans: B

Hint:

Const objects can call only call const functions. Please update function to - void display() const { std::cout << "I am a const object." << std::endl; }

Compiler Level: Experts Category of MCQ: classesAndobjects in C++

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Question: 280



```

#include <iostream>
#include <compare>

struct Point {
    int x;
    int y;

    auto operator<=(const Point&) const = default;
};

int main() {
    Point p1{10, 4};
    Point p2{7, 5};

    // Compare using the spaceship operator
    std::strong_ordering result = p1 <= p2;

    if (result == std::strong_ordering::less) {
        std::cout << "p1 is less than p2" << std::endl;
    } else if (result == std::strong_ordering::greater) {
        std::cout << "p1 is greater than p2" << std::endl;
    } else {
        std::cout << "p1 is equal to p2" << std::endl;
    }

    return 0;
}

```

- (A) p1 is less than p2
 (B) p1 is greater than p2
 (C) p1 is equal to p2
 (D) Compilation Error

[Show Ans](#)

Ans: B

Hint:

C++ 20 spaceship operator `<=>` can be used to compare objects.

Compiler Level: Experts Category of MCQ: cpp20 in C++

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