ver the following questions based on Polymorphism in C++

What is the output of the following code?

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

int grades(int a = 0, int b = 0, int c)
{  return (a + b + c); }

int main()
{
   cout << grades(10);
   return 0;
}
```

a. 10
b. 20
c. 0
d. Compile time error

OPTIONS

a

SKIP

following questions based on Inheritance:

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

class A
{
 int x;
public:
 void setX(int i) {x = i;}
 void print() { cout << x; }
};

class B:  public A
{
public:
 B()  { setX(10); }
};

class C:  public A
{
public:
 C()  { setX(20); }
};

class D: public B, public C {
};

int main()
{
   D d;
   d.print();
   return 0;
}
```

a. 10
b. 20
c. 0
d. error

SKIP

owing questions based on Polymorphism in C++

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

```
abstract class student
{
  public : int grades;
  calc_marks();
}
class student1:public student
{
   public : calc_marks()
   {
      return 20;
   }
};
class student2:public student
{
    public : calc_marks()
    {
       return 30;
    }
};
class fail{ int grades;
};
```

a) Only class student can show polymorphism
b) Only class student and student1 together can show polymorphism
c) All class student, student1 and student2 together can show polymorphism
d) Class fail should also inherit class student for this code to work for polymorphism

OPTIONS

SKIP

SUBMIT ANSWER

Choose correct option(1-marks)

Predict the output:

```
#include<iostream>
using namespace std;
int main()
{
   int arr[] = {10, 20, 30, 40, 50};
   int *p = arr;
   p += 3;
   cout<<*p;
   return 0;
}
```

a) 10
b) 20
c) 30
d) 40

OPTIONS

a

b

Choose correct option(2-marks)

Find the output for the following code?

```
#include <iostream>
using namespace std;
class student {
  private:
   int age;
  public:
   student() {
      age = 20;
   }
   student(int a) {
      age = a;
   }
   int getAge() {
      return age;
   }
};
int main() {
   student stu1, stu2(25);
   cout << "student1  Age = " << stu1.getAge() << endl;
   cout << "student2 Age = " << stu2.getAge() << endl;

   return 0;
}
```

a. student1 Age=20
b. student1 Age=20 student2 Age=25
c. run time error
d. student2 Age=25

OPTIONS

SKIP

ed on Inheritance:

Choose correct option(1-marks)

What is the correct output of the following code in bytes?

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

class Base {
   int ABC;
};
class Derived1 : Base {
};
class Derived2 : Derived1 {
};
int main()
{
   Derived2 D;

   cout << sizeof(D);

   return 0;
}
```

a. 4
b. 8
c. 16
d. Error

OPTIONS

Choose correct option(2-marks)

What is the output of the following program?

```
#include <iostream>
using namespace std;
class ABC {
private:
        int x;

public:
        ABC() : x(10) {}
        void operator ++() {
                x = x + 2;
        }
        void Print() {
                cout << "count: " << x;
                }
};
int main() {
        ABC obj;
        ++obj;
        obj.Print();
        return 0;

}
```

a. count: 2
b. count: 12
c. count: 10
d. count: 14

OPTIONS

Choose correct option(2-marks)

Which operator should be overloaded in the following code to m
error free?

```
#include <iostream>
#include <string>
using namespace std;
class Box{
        int capacity;
public:
        Box(){}
        Box(double capacity){
                this->capacity = capacity;
        }
};
int main()
{
        Box b1(10);
        Box b2 = Box(14);
        if(b1 == b2){
                cout<<"Equal";
        }
        else{
                cout<<"Not Equal";
        }
        return 0;
}
```

a. 0
b. =
c. ==
d. +

Choose correct option(2-marks)

What will be the output of the following C++ code? #include using namespace std; class Test { protected: int x; public: Test (int i):x(i) { } void fun() const { cout << "fun() const " << endl; } void fun() { cout << "fun() " << endl; } }; int main() { Test t1 (10); const Test t2 (20); t1.fun(); t2.fun(); return 0; }

OPTIONS

fun() — fun() const

fun() const — fun()

fun() — c) fun()

fun() const — fun() const

SKIP

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ning Language:

Choose correct option(2-marks)

What will be the output of the following C++ code? #include usingnamespace std; namespace first { int x =5; int y =10; } namespace second { double x =3.1416; double y =2.7183; } int main () { using first::x; using second::y; bool a, b; a = x > y; b = first::y< second::x; cout<< a << b; return0; }

OPTIONS

11

1

0

10

SKIP

ENG US

Choose correct option(2-marks)

What will be the output of the following C++ code? #include #include using namespace std; class B { int b; public: B(int i){ b = i; } }; class C { B b; public: C(int i){ b = B(i); } friend void show(); }; void show() { C c(10); cout<<"value of b is: "<< c.b.b << endl; } int main(){ show(); return 0; }

OPTIONS

value of b is: 10

value of b is: 12345435

Error

Segmentation fault

Calendar

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uestions:

Choose correct option(2-marks)

What will be the output of the following code: #include using namespace std; class Box { private: int length; public: Box(): length(0) { } friend int printLength(Box); }; int printLength(Box b) { b.length += 10; return b.length; } int main() { Box b; cout << printLength(b) << endl; return 0; }

OPTIONS

9

20

10

Error

SKIP

ENG US

ons:

Choose correct option(2-marks)

What will be the output of the following C++ code? #include #include using namespace std; class Box { int capacity; public: Box(int cap){ capacity = cap; } friend void show(); }; void show() { Box b(10); cout<<"Value of capacity is: "<< b.capacity << endl; } int main() { show(); return 0; }

OPTIONS

- Value of capacity is: 10
- Value of capacity is: 100
- Error
- Segmentation fault

SKIP

Choose correct option(2-marks)

ons:

What will be the output of the following code if two input values taken are 10 & 20.
#include using namespace std; class base { int val1, val2; public: void get() { cout << "Enter two values:"; cin >> val1>> val2; } friend float mean(base ob); }; float mean(base ob) { return float(ob.val1 + ob.val2) / 2; } int main() { base obj; obj.get(); cout << "\n Mean value is : " << mean(obj); return 0; }

OPTIONS

10

20

15

SKIP

PASSAGE

Analyse the code based on Constructor and Destructor in C++ language and answer the following questions:

Choose correct option(1-marks)

What is the Output of the following program? #include using namespace std; class Point { Point() { cout << "Constructor called"; } }; int main() { Point t1; return 0; }

OPTIONS

No output

Compiler Error

Runtime Error

Constructor Called

Question

SKIP

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Choose correct option(2-marks)

What will be the output of the following C++ code? #include #include using namespace std; class Box { int capacity; public: Box(int cap){ capacity = cap; } friend void show(); }; void show() { Box b(10); cout<<"Value of capacity is: "<< b.capacity << endl; } int main() { show(); return 0; }

OPTIONS

Value of capacity is: 10

Value of capacity is: 100

Error

Segmentation fault

SKIP

SUBMIT ANSW

Choose correct option(2 marks)

What will be the output of the following code if two input values take
#include using namespace std; class base { int val1, val2; public: voi
"Enter two values:"; cin >> val1>> val2; } friend float mean(base ob);
ob) { return float(ob.val1 + ob.val2) / 2; } int main() { base obj; obj.g
value is : " << mean(obj); return 0; }

OPTIONS

10

20

15

Error

nswer the

Choose correct option(1-marks)

What is the output of this program? #include using namespace std; class TEMP { int x; public: TEMP(); ~TEMP(); void Show() const; }; TEMP::TEMP() { x = 50; } void TEMP::Show() const { cout<< x; } int main() { TEMP obj; obj.Show(); return 0; }

OPTIONS

50

Garbage value

Compile time error

run time error

Choose correct option(1-marks)

What will be the output of the following C++ code?
#include usingnamespace std; int main() { int i; for(i =0; i <10; i++); { cout<< i; } return0; }

OPTIONS

- 123456789
- 10
- 12345678910
- compile time error