1. Which of the following permits function overloading on c++?
   a) type
   b) number of arguments
   c) type & number of arguments
   d) none of the mentioned
2. int Add(int X, int Y, int Z)

```
{
   return X + Y;
}
double Add(double X, double Y, double Z)
{
   return X + Y;
}
        main()
{
    cout << Add(5, 6);
    cout << Add(5.5, 6.6);
}
```

   a)11 12.1
   b) 12.1 11
   c) 11 12
   d) compile time error
3. long Function1(int x, int y = 5, float z = 5)

```
{
  return(++x * ++y + (int)++z);
}
main()
{
  cout<< Function1(20, 10);
}
```

   a) 237
   b) 242
   c) 240
   d) 35
4. void MyFunction(int a, int b = 40)

```
{
  cout<< " a = "<< a << " b = " << b << endl;
}
main()
{
  MyFunction(20, 30);
}
```

   a) a = 20 b = 40
   b) a = 20 b = 30

c) a = 20 b = Garbage
d) a = Garbage b = 40

5. long GetNumber(long int Number)
```
{
   return --Number;
}
float GetNumber(int Number)
{
   return ++Number;
}
main()
{
   int x = 20;
   int y = 30;
   cout<< GetNumber(x) << " ";
   cout<< GetNumber(y) ;
   getchar();
}
```
a) 19 31
b) 20 30
c) 21 31
d) 21 29

6. int BixTest(int x, int y);
```
int BixTest(int x, int y, int z = 5);
int main()
{
   cout<< BixTest(2, 4, 6) << endl;
   getchar();
}
int BixTest(int x, int y)
{
   return x * y;
}
int BixTest(int x, int y, int z = 5)
{
   return x * y * z;
}
```
a) 5
b) 8
c) 40
d) compile time error

7.
```
class Box
   {
      public :
      double length;
      double breadth;
      double height;
   };
   main( )
   {
      Box Box1;
      double volume;
      Box1.height = 5;
      Box1.length = 6;
      Box1.breadth = 7.1;
      volume = Box1.height * Box1.length * Box1.breadth;
      cout << "Volume of Box1 : " << volume <<endl;
   }
```
a) 210
b) 213
c) 215
d) 217

8.
```
class Empty {};
  int main()
{
 cout << sizeof(Empty);
 return 0;
}
```
a) A non-zero value
b) 0
c) Compiler Error
d) Runtime Error

9.
```
class Test
{
public:
   int i;
   void get();
};
void Test::get()
{
   std::cout << "Enter the value of i: ";
   std::cin >> i;
}
Test t;  // Global object
```

```
main()
{
   Test t;  // Local object
   t.get();
   std::cout << "value of i in local t: "<<t.i<<'\n';
   ::t.get();
   std::cout << "value of i in global t: "<<::t.i<<'\n';
}
```

Let values you have entered as 11 and 22 in the sequences.

a) Compiler Error: Cannot have two objects with same class name
b) Compiler Error in Line “::t.get();”
c) Runtime error
d) 11 22

10.
```
int var=100;
class sample
{
public:
      int var;
      void get()
      {
          var=30;
      }
   void showVal(void)
   {
       cout<<var<<endl;
   }
};
main()
{
     sample ob;
     ob.get();
     ob.showVal();
}
```

a) 100
b) 30
c) Compile time error
d) 30 100