1. What will be the output of the following C++ code? #include <iostream> using namespace std; class Point int x, y; public: Point(const Point &p) x = p.x;y = p.y;int getX() return x; int getY() return y; **}**; int main() Point p1; Point p2 = p1; cout << "x = " << p2.getY() << " y = " << p2.getY(); return 0; Answers 1. x = garbage value y = garbage value2. x = 0 y = 03. Compiler Error 4. None of the above 2. What will be the output of the following C++ code? #include<iostream> using namespace std; class Point int x; public: Point(int x) this->x = x; Point(const Point p) x = p.x;

int getX()

return x;

{

};

```
int main()
 Point p1(10);
 Point p2 = p1;
 cout << p2.getX();
 return 0;
Answers
1. Compiler Error: p must be passed by reference
2. Garbage value
3.10
4. None of the above
3. number of constructors in cpp.
Answers
1.4
2.2
3.3
4.5
4. correct syntax of copy constructor?
Answers
1. class_name (const class_name& other)
2. class_name (const class_name* other)
3. class name (const class name other)
4. return_type class_name (const class_name& other)
5. Which of the following scenarios where deep copy is generally required?
Answers
1. If an object has pointers to dynamically allocated memory.
2. If dynamically allocated memory needs to be copied when the original object is copied
3. Only 1 is correct
4. Both A and B are correct
6. _____ assigns the value of one object to another object both of which are already exists.
Answers
1. constructor
2. Copy constructor
3. Assignment Operator
4. None of Above
7. The assignment operator can be used to assign an object to another object of same type, this assignment by
default performed by
Answers
1. Functions
2. Constructors
```

3. Memberwise copy4. Bitwise copy

8. when we assign an already created object to the already created object, the compiler internally calls

____·

Answers

- 1. copy constructor
- 2. default constructor
- 3. assignment operator function
- 4. parameterized constructor

```
9. #include <iostream>
using namespace std;
namespace NArray
           class Array
                      private:
                                 int size;
                                 int *arr;
                      public:
                                 Array(int size=5)
                                             this->size=size;
                                             this->arr= new int[this->size];
                                             for(int index=0; index<this->size; index++)
                                             {
                                                        this->arr[index]=0;
                                             }
                                 Array(const Array& other)
                                             this->size= other.size;
                                             this->arr=new int[this->size];
                                             for(int index=0; index<this->size; index++)
                                             {
                                                        this->arr[index]=other.arr[index];
                                             }
                                  }
                                 void PrintOutputOnConsole()
                                             int index;
                                             for(index=0; index<this->size; index++)
                                                        cout<<"this->arr["<<index<<"] "<< this-
>arr[index]<<"\t["<< &this->arr[index] <<"]"<<endl;
                                 ~Array()
                                             if(this->arr!=NULL)
                                                        delete [] this->arr;
                                                        this->arr=NULL;
                                  }
           };
using namespace NArray;
int main()
```

```
{
           Array a1;
          cout<<"a1 :: "<<endl;
          a1.PrintOutputOnConsole();
           Array a2=a1; // line no 73
          cout<<"a2 :: "<<endl;
          a2.PrintOutputOnConsole();
           Array a3(a1); // line no 77
          cout<<"a3 :: "<<endl;
          a3.PrintOutputOnConsole();
       is called on line no 73 and _____ is called on line no 77.
Answers
1. copy constructor, assignment operator function
2. assignment operator function, copy constructor
3. copy constructor , copy constructor
4. assignment operator function , assignment operator function
10. By default the compiler creates a _____ copy. Default copy constructor always creates a _____ copy.
Answers
1. shallow, shallow
2. deep, shallow
3. default, deep
4. shallow, deep
```