

# FINAL EXAM ANSWER SHEET



**National University**  
of Computer & Emerging Sciences



**SEMESTER :** ☒ SPRING ☐ SUMMER ☐ FALL Year 20 24

Please Tick Appropriate Boxes

35353

Course OOP Serial No./ 35

Roll No. 221-7803 Section BCS-2B Date 24/05/24

Serial No. of continuation sheet(s) attached \_\_\_\_\_

## INSTRUCTIONS FOR CANDIDATES

- Write Question No. In the middle of the line using thick tipped pen.
- Use only blue or black pen to write your answers.
- Answers written using pencil will not be checked.
- Pencil is only allowed to draw diagrams or write program code.

(THIS ANSWER BOOK CONTAINS NOS. 1-18)

Q./Part No.	Marks
Q. - 1	9
Q. - 2	0
Q. - 3	0
Q. - 4	3
Q. - 5	
Q. - 6	
Q. - 7	
Q. - 8	
Q. - 9	
Q. - 10	

Q./Part No.	Marks
Q. - 11	
Q. - 12	
Q. - 13	
Q. - 14	
Q. - 15	
Q. - 16	
Q. - 17	
Q. - 18	
Q. - 19	
Q. - 20	

Marks Obtained

Total Marks

Examiner's Signature

Date



**Question# 1****(ii) Output :**

start main  
 start A  
 start B  
 start C  
 start D  
 D throwing int exception  
 -1  
 End D.  
 End C.  
 B caught int exception  
 End B.  
 A caught int exception  
 End A.  
 main caught int exception.  
 End main.

**(iii) Output :**

Calling A (int ii)  
 B constructor  
 Copy constructor B  
~~XXXXX~~ ✓  
~~A i = 10~~ A i = 10  
 Calling A (int ii)  
 B constructor  
 Copy constructor B  
 A i = b  
 A i = B

**(iv) Output :**

1	2	B
4	5	6
A	B	C
X	Y	Z



A B C  
~~X 4 2~~ X 4 2  
~~4 5 6~~ 1 2 3  
~~A B C~~ 4 5 6  
~~1 2 3~~

1.5

(V)

sorted integer array:

```

5 for int(i=0; i<intsize; ++i)
2 {
9     cout << if (i==0)
1         {
6             cout << "1" }
            else if (i==1)
                {
                    cout << "2";
                }
            else if (i==2)
                {
                    cout << "5";
                }
            else if (i==3)
                {
                    cout << "6";
                }
            else if (i==4)
                {
                    cout << "9";
                }
            }
    }

```

0

ii) Output:

In main  
 In doing something  
 In might go wrong  
 Caught bad alloc in  
 do something

4

Runtime error

Caught rethrown exception in  
main

Caught rethrown... in main



**Q2. #**

int\* videoSystem::GetSuggestedVideosIDsBy  
userPreferences (int\* userPref)

{

cout << "Enter your preference <sup>tag number</sup> for  
the video from the list of tag IDs";  
cin >> userPref;

return userPref;

{  
};



Question #3

```

Employee Det {
    string name = " ";
    int d1 = 1, int m1 = 1;
    int y1 = 1960;
}
Employee Join {
    int d2 = 1;
    int m2 = 1;
    int y2 = 1960;
    Name (name);
    DOB (d1, m1, y1);
    Joining date (d2, m2, y2);
}

```

(B)

```

public
person (string name) {
    Name = name;
    DOB = 0;
}

```

No changes needed to be made

Question 4

```

Class Name Contact
{
    string name ( );
    cout << "Write the name of the
    contact" << name;
    cin >> name;
}
void main Numbers ( );
{
    cout << "Enter no of the contact";
    cin >> no;
}

```



```
void string Address ( ) :  
{ string adr;  
cout << "Enter the address of contact";  
cin >> adr;  
}
```

```
void string city ( )  
{ string city;  
cout << "Enter the current residence city of the contact";  
cin >> city;  
}  
}
```

we can add functions per requirement.