

BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY (BUBT)

Department of Computer Science and Engineering

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EXAMINATION SCRIPT

(To be filled up by class teacher)

Question No.	Mark Obtained
Total Mark	

(This part is to be filled up by students)

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Student ID:	19202103274
Intake - Section:	44-7
Program:	B.Sc. in CSE
Course code:	EEE 101
Course title:	Computer Science and Engineering
Trimester:	Summer 2020
Exam type:	Final Exam
Date:	25 November, 2020
Question option:	

```
Ams to the que No; 1 6
# include Liostneam)
# include Lcomio. W
wing namespace sta;
class Name_String
 public:
    String string 1, string 2;
   Name - String ()
  string 1 = "Hasan";
   Name_String (string 5, int length)
  of string2 = 5;
  int main ()
  string S;

Cin>> S;

int 12 S. length U;
```

Ans to the que No: 1 (art) (a) Name_String S1; Name_String S2 (5,1); # include Liestreams # include Leavis. 63 cout est. strings es " LLS2: string2 Mend; getch 0; : sprints. 1 prints prints; Nome - String () shings = Hanan"; Name String Eting 5, int length) : 2 = springe int main () is King

Ans to the Que no : 01-(b)

```
Ams to the que No; 01-(6)
# include / iostream>
Waing namespace sta;
class Name _ String (1 2) 00
    String string 1, string 2; 18mg 2 & 80 33 too
 public:
   Nome _ String ()

string 1 = "Hasan";

Noone _ String (string s, int length)
5 thing 2 = 5;
```

cim >> 5; int la s. length U; Name _ String S1; Name - String S2 (5, 1); 53 = 51. String1 + S2. String2; cout as 53 LL enal; retwen o; : c. 200 miles Hasan Zobayero

Ans To The Que 02(a)

```
Ams to the que No; 20
                                           Orien tri
#include Liostneam)
# include (conio. 4)
wing namespace sta;
class Integers Armay
 public:
 int + data;
 int size;
Integer. Annay (int size)
 data = new int [size];
 this -> size = size;
 Coul LL size LL end!; / missing code, which I've written
                          and sum it my
```

int main_O

Integer. Armay arox (100000)

gotch O;

There is a missing line in the following program. For the missing line, it is occurring a new problem which stopping the program to show a valid output. To show the valid output, I have added a new line in the program.

To show in the program.

To show the valid output. To show the valid output, I have added a new line in the program.

To show in the program.

Ans To The Question-2(b)

```
Ams to the que NO: 02-6)
# include Liostneam)
wing namespace 512; 1+14 ejde ovdrom
class Integer. Numbers 1
                               int value;
  Integers Numbers (int value =0)

this ->value = value;
      Indeger Numbers operation ++ (int)
        Integer. Number hemp;
                         temp. value = value ++; ortsolue . 0 660
  retwen temp; but pollsmod and of the retwent the still has a vitil to be a significant to the still has a count of the st
```

Ans to the que NO; 02 B int main 0 Integer Number N (10); Integer Number obj = N++; obj. Display O; yes, we can use member function to do so and it is called operator overdoading. To explain why, let's imagine we've a defined alars integers for handling operation or integers. we can have function and O, substract O, multiplay o and divide O ton handling the respective operations. To make the code, more intuitive and enchance readability, it is pressered to use operations!+,-, * 1) respectively i.e. we can replace the

following code,

```
Ams to the goe NO: 3-0
# include Liostneam)
using namespace sta; 10 mm adjust
dans Greatest
     void nyz (double p, double q, double n)
  public:
    if (x>y && x>2)
       cout 124 largest number is: " 12 12 (Lend);
    elx if (y>20 80 y>2)
      Cout LL" largest numbers is: " LLy Mend!;
      cont LL" largest numberer is : "LLZ Mend";
    else
```

int main 0 (3-a-1) 4 include Liostreams double m.m.o; ; 6+2 sogemen prim cm >> m>> m>> 0; dons Gracadost Graceatest obj; obj. seyz (m,n,o);
(reduch peduch qelduch) spo 6ion if (x>2 && a>2) cond It was mumber is: " It a cond! elx if (3780 80 372) Cord LL" largest numbers is: " LLy mend); else cent et largest numbers is: "We wend!

Ans to The Que No; 03-(b)

```
Ams to the que NO; 3(6)
# include Liostneam>
using namespace sta;
class Greatest
 Public ;
   void ayz (double p, double q, double n)
   if (2) && 272)
        cout 12 " largest number is: "12x22000];
    elne if (4>2 && 4>2)
      coud 12 " largest numbere is: " LLY LLEMO);
   elne
      cout LL" largest numbers; "LLZ LLend!;
```

(d) 6 f. ON up (3-6-1) 01 void myz 0 coul un This function will be called ! when there are no parameter "Mend); ; sildig (rold ob e olduble p double q olduble) spor Gior double mi, mino fiagral of the cm >>m>>m>> 0; (8< 8 8 8 8 m) i onle Obj. nyz (m,n,o); Obj. 2y2 00 and ex largest our return o;

Ans To The Que No 04-(a)

And to the q. NO: 4-60

In the following question:
class B and class c is in multilevel inheritance
so when we try to convert multilevel inheritance
into multiple inheritance the error occurred

(class D)
so, we can't convert multilevel on heritance
into multiple inheritance.

So, the right code is:

Next page to code:

```
# include Liostneam >
 # include Lconio. 4)
 using namespace sta;
 class A
 public:
   int a, b, a22;
   void sum (inta, intb)
   add = a+b;
  cont ecado;
class B: public A
clan c: publicA
```

```
class D: public C
                                      # include Liestneam >
                                        4 molecue 1 comision
int main U
 D myObj;
myObj. sum (10,5);
vertwen 0;
                                                      Class A
                                          mf a. b. a22;
                                 void sum (inta, intb)
                                             Clara O: public A
                                             class C: publicA
```

Ans To The Que No: 04-(b)

```
Ams to the gue NO: 4-(6)
# include Liostneam)
# mclude / comio. w/ ( source ) ( ) de source )
                       (Od. serverym
class Souvere ( 102, souvered )
  public:
    void 50 f
cout LL "This is class Server In";
class Others Servers: public Servers ?
  public:
   roid 50 }
      coul ce "This is class others Serverch";
```

int main U1

Serveres my Serveres; (mosaderil Souloni 4)

Others Serveres my Others Serveres; (woolan's souloni 4)

my Serveres . 50;

my Others Serveres . 50;

my Others Serveres . 50;

getch 0;

John 100 6inv

John 100 6inv