

BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY (BUBT) Dept. of EEE

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EXAMINATION SCRIPT

(Filled up by class teacher)

Question No.	Mark Obtained
Total Mark	

(This part is filled up by students)

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44- 7	
CSE	
121	
CSE 121	
Summer 2020	
Mid Term	
25 September, 2020	

Ams to the NO: 1 (a) -> Explain how oop gives the abstraction Seature Abstraction is one of the most essential and impositant feature of object oriented programming in C++ . It responesents essential features without including the background defails or explanations. Data abstraction referes to providing only essential information about the sate to the outside world, hiding the background details on implementation. The main purpose of abstraction is hiding the morneccessary details from the weres. It helps in reducing programming completity and effonts. It is one of the most imposetant concepts of oop.

why we need to encapsulation?

The whole idea behind encapsulation is to hide the implementation details from views. If a data member is private it means it can only be accessed withing the same dars.

Prevent the access to the data directly or data is not accessible to the outside world.

This is insulation of the data from direct access by the program is known as a data hidding one information hiding.

Ans To The Que No: 01(B)

```
Am to the gue No; 16)
# include l'ostream)
# include / conio. h)
                              : Moredo staribaco
wing namespace Sta;
                              Spect 1, set (5, 10, 20).
                      soundmake object 2 = object 1;
Class Square
                                  brec 12. show ();
 private:
                                  Ob Feet 2. Show O;
   int length;
 Public:
   void set_length (int a)
    length = a;
inline int getarea (void)
cout 4 leggth 4 end;
```

```
int main ()

Square Square 1;

int area = 0.0;

square 1. Set_length (23);

area = square 1. getarea ();

Cout 11 area of square 1: " 12 area 11 en 21;

getch ();
```

Ans To The Que No: 02 (A)

```
Assto the que No; 2(a)
 #include Liostneam)
 wing namespace stat, house all soled of as been
class Cse 44
                             Cout IL Ender ID: ";
 Private:
                      Roud LL Ender Section: ";
   Charc name [100];
   Ant ia, sec;
   int intake = 44;
                              vois coeff : : disp ()
Public:
    Cse 440:
   and IL In Student Defails " (Lend); (UP sela
  Coul I'm Student Name: " Lemane ; O Boars Giov
  void disp 0; "16 12 16 12 " 10 1 1 100
              Count 12 " Section is: " It see Hend!
y;
                and W Intake is: " Wintake;
Cse 44: : Cse 440
```

```
void Ose44: read O
Cout IL "In Enter The Student Name: ";
cin >> name;
 Cout 11 "Enter ID : ";
 cin >> ia;
 Cout 12" Enter Section: ";
                               have mame/150/
 Cin >> sec;
void Cre44 : : Disp U
 Cout LL" In In Student Details " Llend1; " (1)
 Cout LL" Student Name: " (Lname Wend); "
 cont LL "ID: " LLid (Lend); i) gail Gio
 Cout 11 "Section is: " 11 see 11 end!
 Cout 11 " Intake is: " 11 intake;
```

```
Cse44 :: ~ (se 440)
int main O
 CDE44 5[5];
 inf i, n=0;
 In (120; 125; 1+1) stri , 1 ptm 10 to tri
1
5[i]. read ();
 for (i=0; i <5; i++)
   S[i]· Qisp ();
   " The value of a is; " LEAL end!
return o; 16mg ss ": eid to enter ent
    The value of c is; " 12 en 31;
```

Ans To The Que No: 2-(B)

```
Am to the que No; 260
# melude Liostneam)
wing namespace sta;
Class Cooxedinate
Public:
  int x, y, 2;
  void set (int 21, int y1, int 21)
   J= 71;
                           (i=0; i <5; i+1)
 void show ()
                                 Sal Poispo:
 Cout cu in The value of a is: " 11211 end!;
 Coud 11. "The value of bis: " 11 end!
, Cout 11 "The value of c is: " 12 en 21;
```

```
int main U
 Coordinate object 1;
 object 1 . set (5, 10, 20):
 Coordinate object 2 = object 1;
 object 2. show ();
 Object 2. Show O;
 retwoo;
        The value of a a is: 5
        The value of 6 is: 10
        The value of C is : 20
       The value of a is:5
      The value of 6 is: 10
      The value of c is : 20
```

```
Ams to the que NO; 30
#include Liostneam)
using namespace Sta;
class Bor
int length, width, height, valume;
 publie:
Box (int x, int y, inf z)
 length = n;
   heigth = 7;
    width = 2;
   int calVolume O
    volume = length + height + width
    return volume;
```

```
void compare Box (Box A1, Box A2)
    int x. y;
    x = A1 . cal Volume ();
    of 2 Az. Calvolume 0;
    Cout 12 " Biggers Volume: " LL max (x,y);
  int main 0
   Box A1 (4, 5, 6);
   Box A2 (7,8,9);
   Al . Cal Volume O;
   Cont 12" Box 1 volume : " LL A1. Cal Volume () Lenal;
   Az. calvolume O;
   Cout 44 BOX2 Volume ; " LLAZ. cal Volume U Menal;
    Compare Box (A1, A2);
    retwen o;
```

```
Am to the que No: 3 (6) god 11 be siev
 # include (iostneam)
                           if (myon & myop)
 # include / conio. W
 using namespace sta;
                                if (meson && or >= P)
 class set " : seamed to grad may 12 m 12 " : red mum to grad " 12 to 00
  int m, n, P;
                          H (P) som && P) son)
 Cook 12" Largest number: " LLF 22 "Introgest Grande:"
Public:
   void input (void);
   voia largest (voia);
                                           int main U
void set :: input (void)
 cout LL "Enter the total marks of three students; "Menal;
 cin>>m>>n>>p:
 Coul 11 Enter the grades of three Students [Ex: A, B, e, D, F]"
                                              12 enal
```

```
void set: largest 0
                                      melude Liestneamy
       if (m>= n && m>= P)
         Cout 11" Largest numbers: " 11 m 12" in Largest Grade; "
                                    Cope 3300 States
       if (n>=m && m>= P)
         Cout 124 Largest numbers; "LLn LL" In Largest Grade;"
       if (p>=m && p>=n)
         Cout 124 Largest number: " LP 26 "In Largest Grade;"
                                         ; (6ior) Lugar Gior
                                        void largest (void);
    int main U
                                     set :: mput (void)
"Entere the total march to alsome later all report"
     vætwen 0;
I LL Enter the grades of three Students [Ex! A, B, C, D, F]
    104977
                                             : 3KKUKUKA
```