

Department of Electrical Engineering

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Course: Introduction to Computing

Code: EE 116

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Question no 2

①

Part no B Code:

```
#include <iostream>
using namespace std;
int main()
{
    int a, b;
    cout << "Enter the starting Number" << endl;
    cin >> a;
    cout << "Enter the numbers of last row" << endl;
    cin >> b;
    for (int i=1; i<=b; i++)
        for (int j=1; j<=i; j++)
            cout << a << " ";
    cout << endl;
}
```

cout << a << " ";

a++;

{ }

return 0; }

1			
2	3		
4	5	6	
7	8	9	10

Dry Run:

Enter the starting Number

1

Enter the number of last row

4

double intSumHighTens(double a){ if (a>7.0) int main()

Part A Q#2

#include <iostream>
using namespace std;
int main()

{ int a, x=0, y=0;
cout << "Enter the number" << endl;
cin >> a;

while (a != 0)
{ x = a%10;
cout << "x << " << ;
y = y+a;
a = a/10 ;

}

cout << "Sum = " << y << endl; }

return 0;

}

②

```
double indexHighTemp( double t[ ][2], int mon)
```

Question No 3

```
#include <iostream>
```

```
using namespace std;
```

```
double int months = 12;
```

```
double temp [months][2];
```

```
int main ( )
```

```
{
```

```
void getData ( temp [months][2], int months )
```

```
cout << "The average high tem of year " << avgHigh  
( temp, months ) << endl;
```

```
cout << "The var low tem of year " << avgLow ( temp, months )  
endl;
```

```
cout << "The index high temp " << indexHighTemp (
```

```
temp, months ) << endl;
```

```
cout << "The ind low temp " << indexLowTemp (
```

```
temp, months ) << endl;
```

```
return 0;
```

```
}
```

```
Void getData ( double t[ ][2] , int mon )
```

```
{
```

```
for ( int i=0 ; i < mon ; i++ )
```

```
{
```

```
cin >> t[i][0];
```

```
cin >> t[i][1];
```

```
}
```

```
}
```

3

double averageHigh (double t[2] , int m)

{

 double s=0;

 int i=0;

 while (i < m)

{

 s = s + t[i][0];

 i++;

}

 return (s/m);

}

④

double averageLow (double t[2] , int m)

{

 double s=0;

 int i=0;

 while (i < m)

{

 s = s + t[i][1];

}

 return (s/m);

}

m)

double indexHighTemp (double t [] [2], int mon)

{

int dex = 0;

(5)

double rht = t [0] [0];

int i = 0;

while (i < m)

{

~~if~~ (t [i] [0] > rht)

{

rht = t [i] [0];

dex = i;

}

return ~~rht~~;

}

~~if~~

double indexLowTemp (double t [] [2], int mon)

{

int ind = 0

double ilt = t [0] [1];

int i = 0;

while (i < m)

{ if (t [i] [0] <= ilt)

{ ilt = t [i] [1];

ind = i;

return ind; }

17. . Print in a
Question no1 Part = A

include <iostream>
using namespace std;
int main()

{

int A, l, Pcost, Scost, Profit, loss;
double area;

cout << "Enter the farm area" << endl;

cin >> area;

cout << "Enter Animals we r ^{wants} to keep" << endl;

If (a == '2')

{

area1 = 100;

}

cout << "Enter the lactov cost after which enter
the breeding cost and then selling price" << endl;

cin >> l >> Pcost >> Scost >> endl;

Profit = l + Pcost;

Profit = Scost - Profit;

loss = l + Pcost;

loss = Scost - loss;

(6)

if (Profit < 0)

{ cout << "En los " << endl;
, cout << los << endl;

⑦

if (Profit > 0)

{ cout << "Get Profit of " << Profit << endl;

}

return 0;

}

Question no 1 Part no B

include <iostream>
using namespace std;

int main()

{ double a, b;

int cost, carsbook, daysbook; ~~discont~~

cout << "Enter cost of car after which enter the number
of cars you book after which enter the no of
days car book " << endl;

cin >> cost >> carsbook >> daysbook;

if (carsbook >= 10)

{

a = cost * (10/100);

b = cost - a;

cout << "Get Discount 10% in your cost is " << b << endl;

}

else if (carsbook >= 20)

{

a = cost * (20/100);

b = cost - a;

cout << "20% Discount gained cost is " << b << endl;

}

else if (carsbook >= 30)

" " " " " " " " " "

fin

{
 a = cont * (30/100);

④

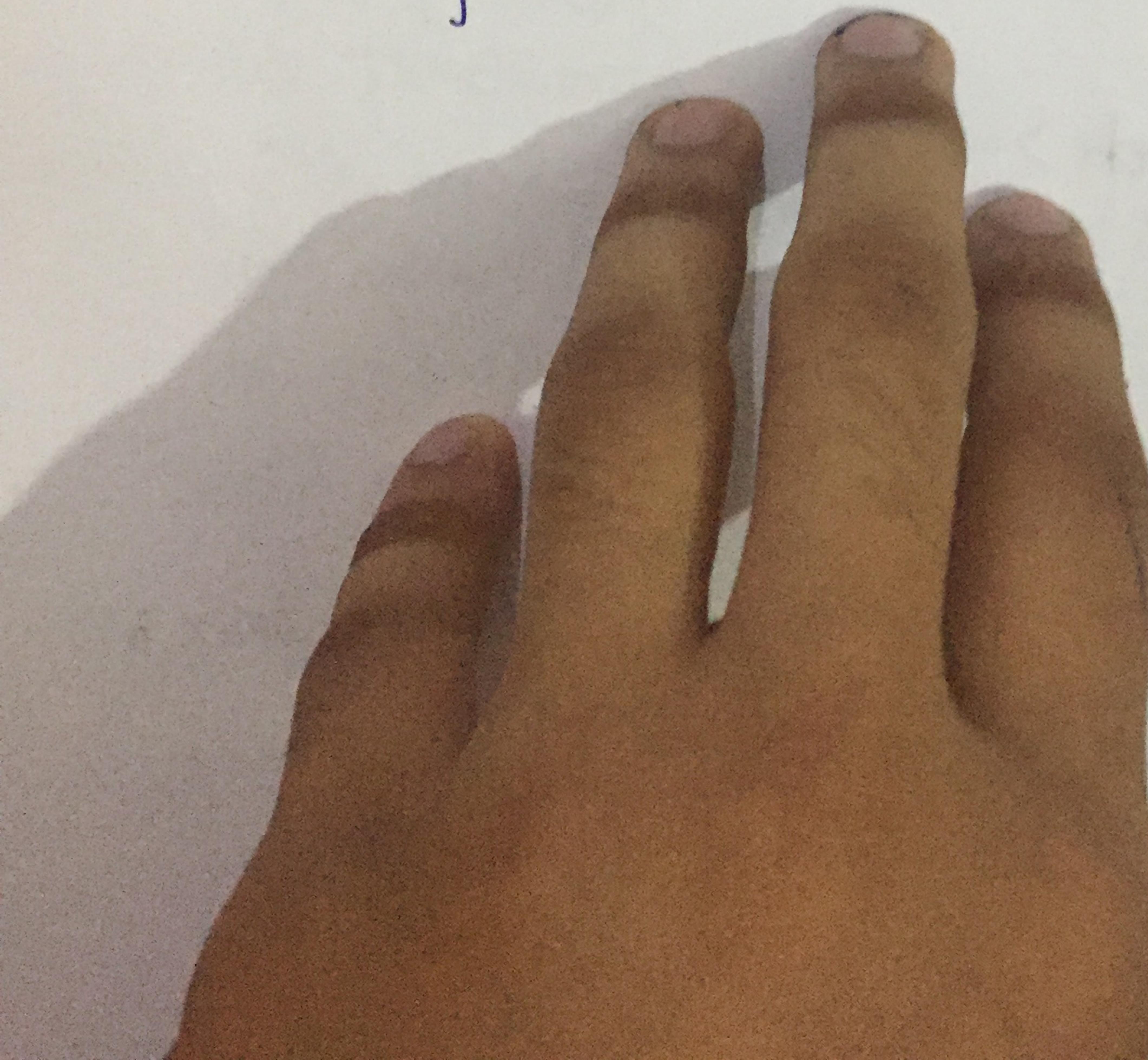
b = cont - a;

cout << "30% you get discount serial out

o" << b << endl;

} the
cout << endl;

return 0; }



Question NO4

(10)

```
# include <iostream>
# include <iomanip>
using namespace std;
int total People , standard Exemption , tax ;
double salary , amt In Person ;
void get Data();
double Tax = lnx(Amount (Total People , Salary , amount of  
standard Exemption));
cout << "Total Tax" << lnx ;
return 0;
```

Void Get Data()

```
{  
    char material Status , answer;
```

```
    int no of child;
```

```
    double grossIncome;
```

```
cout << "You married or not Enter M for marry , S for  
unmarried ";
char l;
```

```
cin >> material Status;
```

```
if (material Status == 'M' || material Status == 'm')
```

Standard Exemption = 7000;

```
cout << Enter no of child and age << endl;
cin >> no of child;
```

while (no of child < 0) {
cout << "num of comb less 0 " << endl;
cout << "Do both Spouse Yes or NO " << endl;
cin >> answer;
while (ans != n && ans != y) {
cout << "enter Y or, N just " << endl;
cin >> answer;
if (ans == 'y') {
cout << "enter combine family incn" << endl;
cin >> gross income;
}
Total People = 2 + no of child;
}
else {
cout << "Please enter your salary" << endl;
cin >> gross income;
Total People = 1;
Standard exemption = 4000;

double Pemr ;
cout << " Enter the pension" << endl;
cin >> Pemr ;
while (Pemr <= 0 || em > 6)
cout << " Enter more pension is 0 more" ;
cin >> Pemr ;
Salary = GrossIncom ;
amt In Pemr = gross incom * Pemr / 100 ;

{

double TaxAmount(int totalPeople , double Salary ,
double amt in Pemr , int StandardExemption) ;

{

double TaxableIncome , marginIncome , marginTax ;

Total taxable income = Salary - (1500.00 * Total People)
- amt in Pemr - Standard Exemption ;

If (tax >= 0 || tax <= 1500)

{ marginTax = 0.15 * Taxable Income ;
total tax = marginTax ;

{

else if ($\text{tax} \geq 15000$ || $\text{tax} \leq 40000$) (13)

margin income = taxable income - 15000;

margin Tax = $0.25 * \text{margin income}$;

base Tax = 2250;

Total Tax = base Tax + margin Tax;

}

else

{
margin income = taxable income - 40000;

margin Tax = $0.35 * \text{Taxable income}$;

base Tax = 3460;

Total Tax = base Tax + margin Tax;

}

return Total Tax;

}