Mid Semester Exam - Fundamentals of Computer & Programming (FCP)(CS109S2)

Mid semester exam

Subject: Fundamentals of Computer & Programming (CS109S2)

Exam Date: 19-May-2021

Exam Time: 9:30 AM to 10:30 AM.

Total Questions: 45 Mode of Exam - MCQ

Important Instructions:

- 1. Only USE your SVNIT E-mail ID to open google MCQ form/Exam. Google form link will be provided to your following respective google meet link at 9.30am.
- 2. Your (web)camera is required to be ON throughout the exam. In case of giving exam through mobile, use another mobile to join google meet and turn ON the camera.
- 3. Marks may be deducted in case of late submission beyond 10.30am and keeping camera OFF during the exam in spite of instructions by invigilators.

Wish you all the best for the exam...

The respondent's email (keyur@coed.svnit.ac.in) was recorded on submission of this form.

Your Name *			
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5/26/2021, 3:28 PM 2 of 32

Benefits of using computers are
Speed
Reliable
Storage
All of the above
Which of the following is not an input device?
Touch screen monitor
Keyboard
Scanner
Printer
For base(R)=7 calculate R's and (R-1)'s complement of number 6413
0254, 0253
0253,0254
3687,3686
3686,3687

3 of 32

Add (4567)base10 + (8714)base10 = (?)base9

- 14382
- 13281
- 13382
- 14281

What is the output of the following program?

```
#include <stdio.h>
int main()
    int a = 1, b = 1, c;
    c = a++ + b;
    printf("a=%d, b=%d, c=%d", a, b, c);
    return 0;
```

- a = 1, b = 1, c=2
- a = 2, b = 1, c=3
- a = 2, b = 1, c=2
- a = 2, b = 2, c=3

Which of the following are the functions of Central Processing Unit?	
To carry out arithmetic and logic functions	
to control use of main memory to store data and instructions	
to control the sequence of operations	
All of the above	

```
What is the output of the C Program.?
int main()
{
  int n=6;
  while(n==6)
     printf("PROGRAMMING");
     break;
  return 0;
}
   PROGRAMMING is printed unlimited number of times
   Compiler error
   PROGRAMMING
   None of these
```

```
What is the output of the C Program.?
int main()
  int a=36;
  while(a <= 38)
     printf("%d ", a);
     a++;
  return 0;
   36 37 38
   36 36 36
   38 38 38
   Compiler error
```

Guess the output of following:

```
#include<stdio.h>
void main()
   int i = 0;
   while (++i)
     printf("fcp");
}
```

- a) fcp
- b) fcp is printed infinite times
- c) Varies according to compiler
- d) Error

```
What is output of below program?
int main()
int i,j,k,count;
count=0;
for(i=0;i<5;i++)
 for(j=0;j<5;j++)
   count++;
printf("%d",count);
return 0;
   (A)5
   (B) 10
   (C) 25
   (D) 50
```

```
int main() {
 int c=0, no=50;
 do{
    no/=10;
    C++;
 }while(no>0);
  printf("%d %d",no, c);
 return 0;
  0 5
  20
0 2
  50
```

is known as CPU's working memory.

Address bus

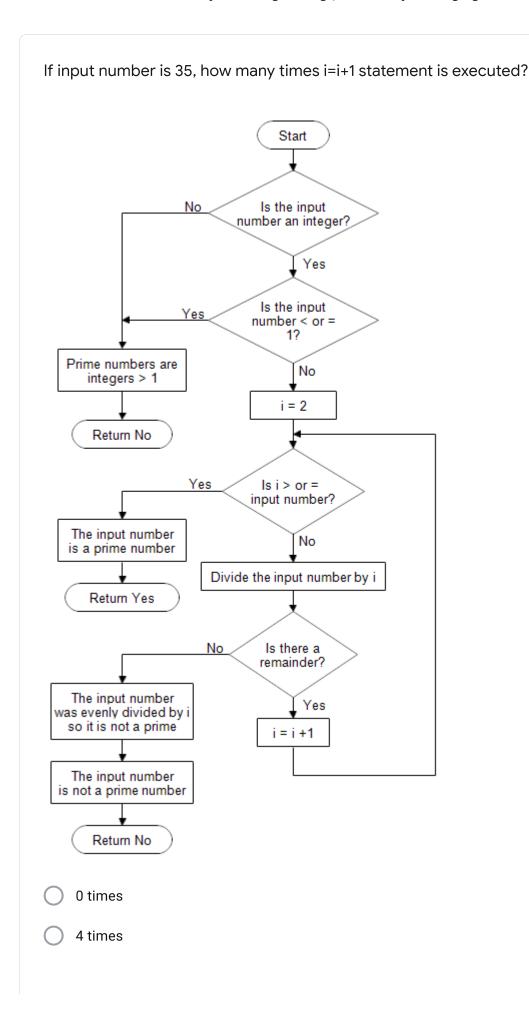
Registers

Data bus

Hard Disk

The fastest memory in computer system is
RAM
ROM
Cache
Hard Disk

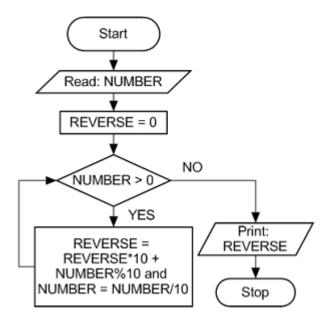
10 of 32



5 times

3 times

If NUMBER is entered as 34521, how many times the condition NUMBER > 0 will be executed?



- 5 times
- 6 times
- 4 times
- 3 times

What will be the output of the following program?

```
#include <stdio.h>
int main()
    int i = 0;
    int j = i++ + i;
    printf("%d\n", j);
    return 0;
```

- Compile time error

```
What will be the output of the following C code?
 #include <stdio.h>
 int main()
     int a = 10, b = 5, c = 5;
     int d;
     d = a == (b + c);
     printf("%d", d);
     return 0;
 10
   Syntax error
```

What will be the output of the following C code?

```
#include <stdio.h>
int main()
    int a = 10;
    double b = 5.6;
    int c;
    c = a + b;
    printf("%d", c);
    return 0;
```

- 15
- 16
- 15.6
- 10

```
What will be the output of the following program?
#include<stdio.h>
int main()
  int a = 1, b = 2, c = 3;
  printf("%d", a += (a += 3, 5, a));
  return 0;
12
8
```

```
What will be the output of the following C Program?
#include<stdio.h>
int main()
{
     int x=12, y=7, z;
     z = x! = 4 | y == 2;
     printf("z=%d\n", z);
     return 0;
  z=0
2=1
   z=4
   z=2
```

```
what will be the output of the following program?
#include<stdio.h>
int main()
{
     int i=4, j=-1, k=0, w, x, y, z;
     w = i || j || k;
     x = i &   i &   k;
     y = i \mid j &&k;
     z = i && j || k;
     printf("%d, %d, %d\n", w, x, y, z);
     return 0;
 ) 1, 1, 1, 1
1, 1, 0, 1
1, 0, 0, 1
1, 0, 1, 1
```

```
What will be the output of the following program?
#include<stdio.h>
int main()
{
     int k, num=30;
     k = (num>5 ? (num <=10 ? 100 : 200): 500);
     printf("%d\n", k);
     return 0;
   30
   100
200
   500
```

```
What will be the output of the following program?
#include<stdio.h>
int main()
{
     int x = 3;
     float y = 3.0;
     if(x == y)
          printf("x and y are equal");
          printf("x and y are not equal");
     return 0;
x and y are equal
   x and y are not equal
   Compile time error
   Run time error
```

```
What will be the output of the following program?
#include<stdio.h>
int main()
     int x, y, z;
     x=y=z=1;
     z = ++x \mid \mid ++y && ++z;
     printf("x=%d, y=%d, z=%d\n", x, y, z);
     return 0;
x=2, y=1, z=1
 x=2, y=2, z=1
x=2, y=2, z=2
  x=1, y=2, z=1
```

```
What will be the output of the following program?
#include<stdio.h>
int main()
{
     int x = 10, y = 20;
     if(!(!x) && x)
          printf("x = %d\n", x);
     else
          printf("y = %d \ n", y);
     return 0;
  y =20
   x = 0
x = 10
   x = 1
```

5/26/2021, 3:28 PM 22 of 32

```
What will be the output of the following program?
```

```
#include <stdio.h>
    int main()
        int i=65;
        char j='A';
        if(i==j)
            printf("C is WoW");
        else
            printf("C is tough");
        return 0;
```

- C is tough
- C is WoW
- Compile time error
- Run time error

Binary Operator

Ternary Operator

What will be the output of the following program? #include <stdio.h> int main() { int x = 2, y = 0; int z = (y++)? 2 : y == 1 && x;printf("%d\n", z); return 0; Compile time error What is the other name for C Language?: Question Mark Colon Operator.? **Comparison Operator If-Else Operator**

```
What will be the output of the following C code?
  #include <stdio.h>
  int x;
  void main()
        if (x)
             printf("hi");
        else
             printf("how are u");
   hi
   how are u
   compile time error
   Run Time error
(101101101.1101)2 + (11100.0101)2+(<u>AB.CD</u>)16-(743.16)8=(?)10
   82.7070
```

81.7070 82.6060 81.6060

Calculate the value of X,Y, and Z from the calculation (AX7F)16+(YEZ1)16=(FB50)16
X=C, Y=4, Z=D
X=D, Y=5, Z=E
X=B, Y=3, Z=C
X=D, Y=5, Z=F
The computer that process both analog and digital data is called
Analog computer
O Digital computer
Hybrid computer
Mainframe computer
Which of the following is not a valid C variable name?
int number;
float rate;
int \$main;
double var_count;

Which of the following is not a valid variable name declaration?
float PI=3.14;
double PI=3.14;
int PI=3.14;
#define PI 3.14
Which is correct with respect to the size of the datatypes?
char > int > float
O shar line hour
int > char > float
int > char > float

```
What is the output of this C code?
 #include <stdio.h>
 int main()
  {
     float x = 'a';
     printf("%f", x);
     return 0;
   Run time error
   a.000000
97.000000
```

```
What is the output of C Program
#include <stdio.h>
int main()
int x=110;
while(x<120)
++x;
if(x>=116 && x<=118)
continue;
printf("%d ", x);
return 0;
a)110 111 112 113 114 115 119 120
b)111 112 113 114 115 119 120
c)111 112 113 114 115 119
d)110 111 112 113 114 115 119
D
```

```
Find the output
#include<stdio.h>
#include<stdlib.h>
void main ()
  int i;
  for(i = 10; i>0;i--)
     printf("%d ",i);
     if(i == 5) break;
  printf("Inside loop i = %d",i);
a)10 9 8 7 6 5 4 Inside loop i = 4
b)10 9 8 7 6 5 Inside loop i = 5
c)10 9 8 7 6 5
d)10 9 8 7 6 5 Inside loop i = 5 4 3 2 1
```

```
What is output for following C Code
#include<stdio.h>
int main()
  int num=1;
  loop:
  printf("%d", num);
  num++;
  if(num \le 7)
   goto loop;
a) 1
b) 1234567
c) 123456
d) Label not defined
( ) D
```

```
#include < stdio.h>
int main()
   int s = 1;
   switch(s)
      default:
          printf("NIT");
      case 1:
          printf("Surat");
          break;
   }
   return 0;
}
 NIT
 Surat
 NITSurat
 Error
```

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