Marks : 30   Duration: 1 Hr

Q1. Answer the following   (4)

1) Do the following code fragments look ok to you? Or does it look wrong? if wrong explain

```
int A[4]={10,20,30,40};
int B[4];
B=A;
```

2) Evaluate (to true or false) each of fowling expression.

a) $12<=2+2*3$ b) $(10-(16/5)+20)\%8+25=28$

3) State whether the fowling are true or false
 1) one if can have more than one else clause
 2) Each case label can have only one statement

4) The unit of speed used for super computer is _____

Q2. Answer the following   (10)

1) Explain difference between break and continue statement with example
2) Explain different tokens.
3) Explain limitation of flowchart.
4) What is the bitwise operator and explain type conversions with example
5) Difference between SRAM and DRAM

Q3. Answer the following

1) a) Convert $(19B.12)_{16}$ to $(\ )_8$ b) $(111.101)_{16}$ to $(\ )_{10}$.(write a procedure)   (2)
2) $(25)_8 + (30)_8 = (\ ?\ )_8$ (1)
3) Perform $(53)_{10}-(76)_{10}$ using 2's complement.(write a procedure)   (2)

Q4. Answer the following(Any two)   (5)

1) Explain control unit
2) Give the classification of secondary storage and explain optical disk
3) Explain interconnection of computer units

Q5 Write a program to fine the addition of Column elements and diagonal elements   (3)
Of one matrix

<center>OR</center>

Write program to print following pattern using for loop

```
* * * *
*     *
*     *
* * * *
```

Q6. Find the error if any the fowling program otherwise write the output   (3)

```
#include<stdio.h>
main()
{ int a=1;
switch(a){
Case 1:
Printf("yes");
break;
Case '1':
Printf("no")}}
```

```
#include<stdio.h>
main()
{ int i=0,x=0;
do{if(i%5!=0)
x++;
printf("%d",x);}
i++;
}while(i<20);
printf("%d",x); }
```

```
#include<stdio.h>
main()
{int sum=0,j=-5;
for( ;sum<200;j+=5);
sum+=j;
printf("%d",sum);
}
```