TCS 'c'

1.The C language terminator is

  a.semicolon   b.colon c.period d.exclamation mark

2.What is false about the following ' A compound statement is '

  a.A set of simple statments b.Demarcated on either side by curly brackets   c.Can be used in place of simple statement

  d.A C function is not a compound statement.

3.What is true about the following ' C Functions'

  a.Need not return any value b.Should always return an integer c.Should always return a float d.Should always return more than one value.

4.Main must be written as

  a.the first function in the program b.Second function in the program c.Last function in the program d.any where in the program

5.Which of the following about automatic variables within a function   is correct ?

  a.its type must be declared before using the variable b.they are local c.they are not initialised to zero d.they are global.

6.Write one statement equalent to the following two statements

 x=sqr(a);

 return(x);

  a.return(sqr(a)); b.printf("sqr(a)"); c.return(a*a*a); d.printf("%d",sqr(a));

7.Which of the following about the C comments is incorrect ?

  a.commentscan go over multiple lines b.comments can start any where in the line

  c.a line can contain comments with out any language statements d.comments can occur within comments

8.What is the value of y in the following code?

  x=7;y=0;

  if(x=6)

y=7;

else

y=1;

a.7   b.0   c.1   d.6

9.Read the function conv() given below

conv(int t)

{

int u;

u=5/9 * (t-32);

return(u0;

}

What

a.15   b.0   c.16.1   d.29

10.which of the following represents true statement either x is inthe range of 10 and 50 or y is zero

a.x>=10 && x<=50 || y==0;   b.   c.   d.

11.Which of the following is not an infinite loop ?

a.while(1){

....

}

b.for(;;){

...

}

c.x=0;

do{

/*x unaltered within theloop*/

...

```
    }while(x==0);
```

d.# define TRUE 0

...

```
    while(TRUE){
```

....

```
    }
```

12.what does the following function print?

```
    func(int i)

    {

    if(i%2)return 0;

    eale return 1;

    }

    main()

    {

    int =3;

    i=func(i);

    i=func(i);

    printf("%d",i);}
```

a.3   b.1   c.0   d.2

13.how does the C compiler interpret the following two statements

```
    p=p+x;

    q=q+y;
```

a.p=p+x;q=q+y   b.p=p+xq=q+y   c.p=p+xq;q=q+y   d.p=p+x/q=q+y

For questions 14,15,16,17 use the following alternatives

a.int

b.char

c.string

d.float

14.'9'

15."1 e 02"

16.10e05

17. 15

18.read the folllowing code

```
# define MAX 100

# define MIN 100

....

....

if(x>MAX)

  x=1;

else if(x<MIN)

  x=-1;

  x=50;
```

if the initial value of x=200,what is the vlaue after executing this code?

a.200   b.1   c.-1   d.50

19.a memory of 20 bytes is allocated to a string declared as char *s

then the following two statements are executed:

s="Etrance"

l=strlen(s);

what is the value of l ?

a.20   b.8   c.9   d.21

20.given the piece of code

int a[50];

int *pa;

pa=a;

to access the 6th element of the array which of the following is incorrect?

a.*(a+5)

b.a[5]

c.pa[5]

d.*(*pa + 5)

21.consider the following structure:

struct num nam{

        int no;

        char name[25];

        };

struct num nam n1[]={{12,"Fred"},{15,"Martin"},{8,"Peter"},{11,Nicholas"}};

.....

.....

printf("%d%d",n1[2],no,(*(n1 + 2),no) + 1);

What does the above statement print?

a.8,9   b.9,9   c.8,8   d.8,unpredictable value

22.identify the in correct expression

a.a=b=3=4;   b.a=b=c=d=0;

float a=int b=3.5;

d.int a;

float b;

a=b=3.5;

23.regarding the scope of the varibles;identify the incorrect statement:

a.automatic variables are automatically initialised to 0   b.static variables are are automatically initialised to 0

c.the address of a register variable is not accessiable   d.static variables cannot be initialised with any expression

24.cond 1?cond 2?cond 3?:exp 1:exp 2:exp 3:exp 4;   is equivalent to which of the following?

a.if cond 1

exp 1;

else if cond 2

exp 2;

else if cond 3

exp 3;

else

exp 4;

b.if cond 1

if cond 2

if cond 3

exp 1;

else

exp 2;

else

exp 3;

else

exp 4;

c.if cond 1 && cond 2 && cond 3

exp 1 |exp 2|exp 3|exp 4;

d.if cond 3

exp 1;

else if cond 2

exp 2;

else if cond 3

exp 3;

else

exp 4;

25.the operator for exponencation is

a.**   b.^   c.%   d.not available

26.which of the following is invalid

a.a+=b   b.a*=b   c.a>>=b   d.a**=b

27.what is y value of the code if input x=10

y=5;

if (x==10)

else if(x==9)

elae y=8;

a.9   b.8   c.6   d.7

28.what does the following code do?

```
fn(int n,int p,int r)

{

static int a=p;

switch(n){
```

```
        case 4:a+=a*r;

        case 3:a+=a*r;

        case 2:a+=a*r;

        case 1:a+=a*r;

  }

  }
```

  a.computes simple interest for one year   b.computes amount on compound interest for 1 to 4 years

  c.computes simple interest for four year   d.computes compound interst for 1 year

29.a=0;

  while(a<5)

  printf("%d\n",a++);

  how many times does the loop occurs?

  a.infinite   b.5   c.4   d.6

30.how many times does the loop iterated ?

  for (i=0;i=10;i+=2)

   printf("Hi\n");

  a.10   b.2   c.5   d.....

31.what is incorrect among teh following

  A recursive functiion

  a.calls itself   b.is equivalent to a loop   c.has a termination cond   d.does not have a return value at all

32.which of the following go out of the loopo if expn 2 becoming false

  a.while(expn 1){...if(expn 2)continue;}   b.while(!expn 1){if(expn 2)continue;...}

  c.do{..if(expn 1)continue;..}while(expn 2);   d.while(!expn 2){if(expn 1)continue;..}

33.consider the following program

```
main()

{unsigned int i=10;

 while(i>=0){

 printf("%u",i)

 i--;

}

}
```

how many times the loop wxecuted

a.10   b.9   c.11   d.infinite

34.pick out the add one out

a.malloc()   b.calloc()   c.free()   d.realloc()

35.consider the following program

```
main()

{

 int a[5]={1,3,6,7,0};

 int *b;

 b=&a[2];

}
```

the value of b[-1] is

a.1   b.3   c.-6   d.none

36.# define prod(a,b)=a*b

```
main()

{

 int x=2;

 int y=3;
```

printf("%d",prod(x+2,y-10)); }

the output of the program is

a.8   b.6   c.7   d.none

37.consider the following program sigment

int n,sum=1;

switch(n) {

case 2:sum=sum+2;

case 3:sum*=2;

    break;

default:sum=0;}

if n=2, what is the value of sum

a.0   b.6   c.3   d.none

38.identify the incorrect one

1.if(c=1)   2.if(c!=3)   3.if(a<b)then   4.if(c==1)

a.1 only   b.1&3   c.3 only   d.all

39.teh format specified for hexa decimal is

a.%d   b.%o   c.%x   d.%u

40.find the output of the following program

main()

{

int x=5, *p;

p=&x;

printf("%d",++*p);

}

a.5   b.6   c.0   d.none

41.consider the following C code

```
main()

{

int i=3,x;

while(i>0)

{

x=func(i);

i--;

}

int func(int n)

{

static sum=0;

sum=sum+n;

return(sum);

}
```

the final value of x is

a.6   b.8   c.1   d.3

43.int *a[5] refers to

a.array of pointers   b.pointer to an array   c.pointerto a pointer   d......

46.which of the following statements is incorrect

a.typedef struct new{

                  int n1;

                  char n2;

                  } DATA;

   b.typedef struct {

              int n3;

              char *n4;

        }ICE;

   c.typedef union {

              int n5;

        float n6;

           } UDT;

   d.#typedef union {

              int n7;

            float n8;

           } TUDAT;

  ANSWERS:

1-5   D,C,D,C,C 6-10   D,C,C,A,D   11-15 D,C,A,A,A   16-20 B,C,D,C,A   21-25 C,D,B,D,A   26-30 C,B,B,A,D
31-35 B,C,C,C,B

36-40 A,B,A,B,B   41-45 A,D,D,D,A 46-50 B,C,C,A,A