

**Part A should be completed in 60 minutes and the answer sheet should be collected along with the question paper.**

**Part B: consists of short function sub programs in C**

**I Trace the following programme code and give the output. 60 x 1 =60**

1. 

```
#include <stdio.h>
#define a 10
main()
{
    #define a 50
    printf("%d",a);
}
```

a) 50    b) 10    c) compilation error    d)Runtime error

2. 

```
main()
{
    static i=3;
    printf("%d",i--);
    return i>0 ? main():0;
}
```

What is the output of following code?

a) 3 2 1    b) 3 3 3    c) Infinite loop    4) 0 0 0

3. 

```
#include <stdio.h>
main()
{
    int iValue, iResult;
    iValue =10;
    iResult = iValue++ ;
    printf("%d",iResult);
}
```

What is the output of the above code

a) 10    b) 11    c) 0    d)Depends on the compiler

4. 

```
main(){
    char ch ='A';
```

```

int x = 65;
if ( x==ch)
    Printf("Equal");
else
    Printf("Not Equal");
}

```

What is the output of the above code

- a) Equal   b)Not Equal   c)Runtime error   d) Character and Integer can not be compared

5

```

main()
{
    int i=0;
    for(i=0;i<20;i++){
        switch(i){
            case 0 : i+=5;
            case 1 : i+=2;
            case 5 : i+=5;
            default: i+=4;
                break;
        }
        printf("%d,",i);
    }
}

```

What is the output of above code?

- a) 0,5,9,13,17  
b) 5,9,13,17  
c) 12,17,22  
d) 16,21  
e) Syntax error

6 What is the output of the following code

```

main()
{
    char s[ ]="man";
    int i=0;
    printf("\n%c%c%c%c",s[ i ],*(s+i),*(i+s),i[s]);
}

```

- a) Compilation error   b)Segmentation Fault   c) mm@#   d)mmmm

7 What is the output of the following code

```

main()
{

```

```

    int i=-1,j=-1,k=0,l=2,m;
    m=i++&& j++&& k++//l++;
    printf("%d %d %d %d %d",i,j,k,l,m);
}

```

a) Compiler error   b) 0 0 13 0   c) 0 0 1 3 1   d) RunTime error

8 What is the output of the following code (On a 32 bit machine)

```

main()
{
    char *p;
    printf("%d %d ",sizeof(*p),sizeof(p));
}

```

a) Compiler error   b) 1 4   c) 4 4   d) 1 1

9 What is the output of the following code

```

main()
{
    char string[]="Hello World";
    display(string);
}
void display(char *string)
{
    printf("%s",string);
}

```

a) Compiler error   b) Runtime error   c) Hello World   d) Hello

10 What is the output of the following code

```

main()
{
    int c=- -2;
    printf("c=%d",c);
}

```

a) Compiler error   b) c=-2   c) c = 2   d) c = 1

11 What is the output of the following code

```

#define int char

```

```

main()
{
    int i=65;
    printf("sizeof(i)=%d",sizeof(i));
}

```

- a) Compiler error      b) Runtime error      c) sizeof(i)=2      d) sizeof(i)=1

12 What is the output of the following code

```

struct xx
{
    int x=3;
    char name[]="hello";
};

```

```

main()
{
    struct xx *s;
    printf("%d",s->x);
}

```

- a) 3      b) Compiler Error      c) Runtime error      d) Garbage value

13 What is the output of the following code

```

main()
{
    char not;
    not=!2;
    printf("%d",not);
}

```

- a) 1      b) 0      c) Garbage Value      d) FALSE

14 What is the output of the following code

```

#define FALSE -1
#define TRUE 1
#define NULL 0
main() {
    if(NULL)
        puts("NULL");
    else if(FALSE)
        puts("TRUE");
    else
        puts("FALSE");
}

```

```
}
```

a) NULL b)TRUE c)FALSE d)Compiler Error

15 What is the output of the following code

```
#include<stdio.h>
main()
{
    const int i=4;
    float j;
    j = ++i;
    printf("%d %f", i,++j);
}
```

a) 5 5 b) 5 6 c) Compiler Error d)Runtime error

16 What is the output of the following code

```
#include<stdio.h>
main()
{
    register i=5;
    char j[] = "hello";
    printf("%s %d",j,i);
}
```

a) hello 5 b) Compiler Error c)Segmentation fault d) Garbage value 5

17 main() {  
inc(); inc(); inc();  
}  
inc()  
{ static int x;  
printf("%d", ++x);  
}

prints

(a) 012

(b) 123

(c) 3 consecutive unpredictable numbers

(d) 111.

18 What is the output of the following code

```
# include<stdio.h>
aaa() {
    printf("hi");
```

```

    }
    bbb(){
    printf("hello");
    }
    ccc(){
    printf("bye");
    }
    main()
    {
    int (*ptr[3])();
    ptr[0]=aaa;
    ptr[1]=bbb;
    ptr[2]=ccc;
    ptr[2]();
    }

```

a) Compiler Error b)Runtime error c) Garbage value d)bye

19 What is the output of the following code

```

main()
{
    int a= 0;int b = 20;char x =1;char y =10;
    if(a,b,x,y)
        printf("hello");
}

```

a) No Output b)Compilation Error c)Runtime error d)hello

20 What is the output of the following code

```

void main()
{
    static int i=5;
    if(--i){
        main();
        printf("%d ",i);
    }
}

```

a) 0 0 0 0 b) 5 5 5 5 c)5 4 3 2 1 0 d)Runtime error

