

1) Find the output for the following C program

```
main()
{
char *p1="Name";
char *p2;
p2=(char *)malloc(20);
while(*p2++=*p1++);
printf("%s\n",p2);
}
```

Ans. An empty string

2) Find the output for the following C program

```
main()
{
intx=20,y=35;
x = y++ + x++;
y = ++y + ++x;
printf("%d %d\n",x,y);
}
```

Ans. 57 94

3) Find the output for the following C program

```
main()
{
int x=5;
printf("%d %d %d\n",x,x<2,x>2);
}
```

Ans. 5 20 1

4) Find the output for the following C program

```
< P>#defineswap1(a,b)a=a+b;b=a-b;a=a-b;
main()
{
intx=5,y=10;
swap1(x,y);
printf("%d %d\n",x,y);
swap2(x,y);
printf("%d %d\n",x,y);
}
```

```
}  
int swap2(int a,int b)  
{  
int temp;  
temp=a;  
b=a;  
a=temp;  
return;  
}
```

Ans. 10 5

5) Find the output for the following C program

```
main()  
{  
char *ptr = "Ramco Systems";  
(*ptr)++;  
printf("%s\n",ptr);  
ptr++;  
printf("%s\n",ptr);  
}
```

Ans. Samco Systems

6) Find the output for the following C program

```
#include<stdio.h>  
main()  
{  
char s1[]="Ramco";  
char s2[]="Systems";  
s1=s2;  
printf("%s",s1);  
}
```

Ans. Compilation error giving it cannot be an modifiable 'lvalue'

7) Find the output for the following C program

```
#include<stdio.h>  
main()  
{  
char *p1;
```

```

char *p2;
p1=(char *) malloc(25);
p2=(char *) malloc(25);
strcpy(p1,"Ramco");
strcpy(p2,"Systems");
strcat(p1,p2);
printf("%s",p1);
}

```

Ans. RamcoSystems

8) Find the output for the following C program given that [1]. The following variable is available in file1.c
static int average_float;

Ans. All the functions in the file1.c can access the variable

9) Find the output for the following C program

```

#define TRUE 0
some code
while(TRUE)
{
some code
}

```

Ans. This won't go into the loop as TRUE is defined as 0

10) Find the output for the following C program

```

main()
{
int x=10;
x++;
change_value(x);
x++;
Modify_value();
printf("First output: %d\n",x);
}
x++;
change_value(x);
printf("Second Output : %d\n",x);
Modify_value(x);
printf("Third Output : %d\n",x);
}
Modify_value()

```

```

{
return (x+=10);
}
change_value()
{
return(x+=1);
}

```

Ans. 12 1 1

11) Find the output for the following C program

```

main()
{
int x=10,y=15;
x=x++;
y=++y;
printf("%d %d\n",x,y);
}

```

Ans. 11 16

12) Find the output for the following C program

```

main()
{
int a=0;
if(a=0) printf("Ramco Systems\n");
printf("Ramco Systems\n");
}

```

Ans. Only one time "Ramco Systems" will be printed

13) Find the output for the following C program

```

#include<stdio.h>
int SumElement(int *,int);
void main(void)
{
int x[10];
int i=10;
for(;i;)
{
i--;
*(x+i)=i;
}
}

```

```

printf("%d",SumElement(x,10));
}
int SumElement(int array[],int size)
{
int i=0;
float sum=0;
for(;i<size;i++)
sum+=array[i];
return sum;
}

```

Q14) Find the output for the following C program

```

#include<stdio.h>
void main(void);
int printf(const char*,...);
void main(void)
{
inti=100,j=10,k=20;
-- int sum;
float ave;
charmyformat[]="ave=%.2f";
sum=i+j+k;
ave=sum/3.0;
printf(myformat,ave);
}

```

Q15) Find the output for the following C program

```

#include<stdio.h>
void main(void);
{
int a[10];
printf("%d",((a+9) + (a+1)));
}

```

Q16) Find the output for the following C program

```

#include<stdio.h>
void main(void)
{
struct s{
int x;
float y;
}s1={25,45.00};
union u{

```

```

int x;
float y;
} u1;
u1=(union u)s1;
printf("%d and %f",u1.x,u1.y);
}

```

Q17) Find the output for the following C program

```

#include<stdio.h>
void main(void)
{
    unsigned int c;
    unsigned x=0x3;
    scanf("%u",&c);
    switch(c&x)
    {
        case 3: printf("Hello!\t");
        case 2: printf("Welcome\t");
        case 1: printf("To All!\t");
        default:printf("\n");
    }
}

```

Q18) Find the output for the following C program

```

#include<stdio.h>
int fn(void);
void print(int,int (*)( ));
int i=10;
void main(void)
{
    int i=20;
    print(i,fn);
}
void print(int i,int (*fn1)( ))
{
    printf("%d\n",(*fn1)( ));
}
int fn(void)
{
    return(i-=5);
}

```

Q19) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
char numbers[5][6]={ "Zero", "One", "Two", "Three", "Four"};
printf("%s is %c",&numbers[4][0],numbers[0][0]);
}
```

Q20) Find the output for the following C program

```
int bags[5]={20,5,20,3,20};
void main(void)
{
int pos=5,*next();
*next()=pos;
printf("%d %d %d",pos,*next(),bags[0]);
}
int *next()
{
int i;
for(i=0;i<5;i++)
if (bags[i]==20)
return(bags+i);
printf("Error!");
exit(0);
}
```

Q21) Find the output for the following C program

```
#include<stdio.h>
void main(void)
{
int y,z;<BR>int x=y=z=10;
int f=x;
float ans=0.0;
f*=x*y;
ans=x/3.0+y/3;
printf("%d %.2f",f,ans);
}
```

Q22) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
double dbl=20.4530,d=4.5710,dblvar3;
```

```
double dbln(void);
dblvar3=dbln();
printf("%.2f\t%.2f\t%.2f\n",dbl,d,dblvar3);
}
double dbln(void)
{
double dblvar3;
dbl=dblvar3=4.5;
return(dbl+d+dblvar3);
}
```

Q23) Find the output for the following C program

```
#include<stdio.h>
static int i=5;
void main(void)
{
int sum=0;
do
{
sum+=(1/i);
}while(0<i--);
}
```

Q24) Find the output for the following C program

```
#include<stdio.h>
void main(void)
{
intoldvar=25,newvar=-25;
int swap(int,int);
swap(oldvar,newvar);
printf("Numbers are %d\t%d",newvar,oldvar);
}
int swap(int oldval,int newval)
{
int tempval=oldval;
oldval=newval;
newval=tempval;
}
```

Q25) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
```



```
inti=100,j=20;
i++=j;
i*=j;
printf("%d\t%d\n",i,j);
}
```

Q26) Find the output for the following C program

```
#include<stdio.h>
void main(void);
int newval(int);
void main(void)
{
int ia[]={12,24,45,0};
int i;
int sum=0;
for(i=0;ia[i];i++)
{
sum+=newval(ia[i]);
}
printf("Sum= %d",sum);
}
int newval(int x)
{
static int div=1;
return(x/div++);
}
```

Q27) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
int var1,var2,var3,minmax;
var1=5;
var2=5;
var3=6;
minmax=(var1>var2)?(var1>var3)?var1:var3:(var2>var3)?var2:var3;
printf("%d\n",minmax);
}
```

Q28) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
```

```

void pa(int *a,int n);
int arr[5]={5,4,3,2,1};
pa(arr,5);
}
void pa(int *a,int n)
{
int i;
for(i=0;i<n;i++)
printf("%d\n",*(a++)+i);
}

```

Q29) Find the output for the following C program

```

#include<stdio.h>
void main(void);
void print(void);
{
print();
}
void f1(void)
{
printf("\nf1():");
}

```

Q30) Find the output for the following C program

```

#include "6.c"
void print(void)
{
extern void f1(void);
f1();
}
static void f1(void)
{
printf("\n static f1().");
}

```

Q31) Find the output for the following C program

```

#include<stdio.h>
void main(void);
static int i=50;
int print(int i);
void main(void)
{
static int i=100;

```

```

while(print(i))
{
printf("%d\n",i);
i--;
}
}
int print(int x)
{
static int i=2;
return(i--);
}

```

Q32) Find the output for the following C program

```

#include<stdio.h>
void main(void);
typedef struct NType
{
int i;
char c;
long x;
} NewType;
void main(void)
{
NewType *c;
c=(NewType *)malloc(sizeof(NewType));
c->i=100;
c->c=' C' ;
(*c).x=100L;
printf("(%d,%c,%4Ld)",c->i,c->c,c->x);
}

```

Q33) Find the output for the following C program

```

#include<stdio.h>
void main(void);
const int k=100;
void main(void)
{
int a[100];
int sum=0;
for(k=0;k<100;k++)
*(a+k)=k;
sum+=a[--k];
printf("%d",sum);
}

```

