

1. What is the output of the program given below

```
#include<stdio.h>
main()
{
    char i=0;
    for(;i>=0;i++) ;
    printf("%d\n",i);
}
```

2. What is the output of the following program

```
#include<stdio.h>
main()
{
    int i=0;
    fork();
    printf("%d",i++);
    fork();
    printf("%d",i++);
    fork();
    wait();
}
```

3. What is the memory allocated by the following definition ?

```
int (*x)[10];
```

4. What is the memory allocated by the following definition ?

```
int (*x)();
```

5. In the following program segment

```
#include<stdio.h>
main()
{
    int a=2;
    int b=9;
    int c=1;
    while(b)
    {
        if(odd(b))
            c=c*a;
        a=a*a;
        b=b/2;
    }
    printf("%d\n",c);
}
```

How many times is $c=c*a$ calculated?

6. In the program segment in question 5 what is the value of a at the end of the while loop?

7. What is the output for the program given below

```
typedef enum grade{GOOD,BAD,WORST,}BAD;
main()
{
    BAD g1;
    g1=1;
    printf("%d",g1);
}
```

8. Give the output for the following program.

```
#define STYLE1 char
main()
{
    typedef char STYLE2;
    STYLE1 x;
    STYLE2 y;
    clrscr();
    x=255;
    y=255;
    printf("%d %d\n",x,y);
}
```

9. Give the output for the following program segment.

```
#ifdef TRUE
int l=0;
#endif

main()
{
    int j=0;
    printf("%d %d\n",i,j);
}
```

10. In the following program

```
#include<stdio.h>
main()
{
    char *pDestn,*pSource="I Love You Daddy";
    pDestn=malloc(strlen(pSource));
    strcpy(pDestn,pSource);
    printf("%s",pDestn);
    free(pDestn);
}
```

(a)Free() fails
1).

```
main()
{
    int a[100];
    int i;
    x= 0
    y= 100
    -----
    -----
    for(i=1;i<=4;i++)
    }

    return;
```