



MODULE – III

5. a) List and explain basic data types used in C.

7

b) A C program contains the following declarations and initial assignments :

```
int i = 8, j = 5 ;
```

```
float x = 0.005 ;
```

Determine the value of each of the following expressions :

i) $2 * ((i/5) + (4 * (j - 3)) \% (i + j - 2))$

3

ii) $(i > 0) \&\& (j < 5)$

1

iii) $!(x > 0)$

1

iv) $++x$

1

c) Write a C program to find sum of digits of a number and to reverse the number.

7

6. a) Identify the errors in the following C programs :

4

i) `# include < stdio.h >`

```
Main ( )
```

```
{
```

```
float a ;
```

```
int r ! = 4 ;
```

```
a = 1.5 * * r * 2 ;
```

```
printf ( " % c", a) ;
```

```
}
```

ii) `# include < stdio.h>`

```
main ( )
```

```
{
```

```
char u ; v ;
```

```
int w ;
```

```
u = a ;
```

```
v = b ;
```

```
w = a + b ;
```

```
printf ( "%d " , w) ;
```

```
}
```

