

SECTION A

2*10 M

1.

```
for ( x = 2; x <= 13; x = x ++ )
    if(x%2==0)
        printf( "%d\n", x );
```

What will be the output

2.

```
n=568
while(n>0)
{ rem=n%10;
  printf(“%d”, rem);
  n=n/10;
}
```

What will be the output?

3. C programs are converted into machine language with the help of

- a. Editor
- b. Compiler
- c. Interpreter
- d. operating system

4. Differentiate between high level language and low level language?(4 points)

5. What will be the output of the program?

```
#include<stdio.h>
int main()
{
    int i=3;
    i +=9
    printf("%d\n", i);
    return 0;
}
```

6. What are different build in data types in C?

7. What will be the output

```
main( ) {  
    float a = 5, b = 2 ;  
    int c ;  
    c = a % b ;  
    printf ( "%d", c ) ;  
}
```

8. What are different math functions in C?

9. Explain briefly four pillars of Object oriented Programming briefly.

10. Which is valid C expression?

- a) int my_num = 100,000;
- b) int my_num = 100000;
- c) int my num = 1000;
- d) int \$my_num = 10000

Q 3: Solve Any Four

(4*5) M

- a) Explain conditional operator in C with help of an program.
- b) WAP to print odd numbers of Fibonacci series.
- c) Any year is input through the keyboard. Write a program and draw a flow chart to determine whether the year is a leap year or not.
- d) What is recursion? WAP to print factorial of a number using recursion.
- e) What are functions. Differentiate between Call by value and Call by reference.

Q 4: Solve Any Three.

(3* 10) M

- (a) Explain different errors in C with help of suitable examples.
- (b) Write a program to find the smallest among three numbers with algorithm and flowchart.
- (c) Explain for loop. WAP to print prime numbers from 1 to 100 using for loop.
- (d) What is an array in C.WAP to perform linear search on 1-D array.