Max Mark: 70 M   **Max Time: 03:00 Hrs**

SECTION A   **2*10 M**

1. for (x = 2; x <= 13; x = x +2)
       printf("%d\n", x);
        What will be the output

2. for (x = 12; x >= 2; x = x - 3)
       printf("%d\n", x);
       What will be the output

3. In C, what is the correct hierarchy of arithmetic operations?

    a.   */ + -
    b.   * +- /

    c.   / *+ -

    d.   + - / *

4.   C programs are converted into machine language with the help of
a. Editor
b. Compiler
c. Interpreter
d. operating system

5.   C variable can not start with
a. A Number
b. A Special symbol other than Underscore
c. Both of above
d. An alphabet

6. Which of the following is not a correct variable type
a. float
b. real
c. int
d. double
e. char

7. What will be the output of the program?
```c
#include<stdio.h>
int main()
{
   int i=3;
   i = i++;
   printf("%d\n", i);
   return 0;
```

```
}
```

    a. 3
    b. 4
    c. 5
    d. 6

8. A character variable can at a time store
 a 1 character
 b 8 characters
 c 254 characters
 d None of the above

9. An integer constant in C must have:
 a. At least one digit
 b. Atleast one decimal point
 c. A comma along with digits
 d. Digits separated by commas

10. What will be the output

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

Q 3: Solve Any Three   **(3*10) M**

a) What is an operator? Explain the arithmetic and logical operators in C language. Write a program to print the Odd and even Number from 1 to 100.
b) In a company an employee is paid as under: If his basic salary is less than Rs. 1500, then HRA = 10% of basic salary and DA = 90% of basic salary. If his salary is either equal to or above Rs. 1500, then HRA = Rs. 500 and DA = 98% of basic salary. If the employee's salary is input through the keyboard write a program and draw a flow chart to find his gross salary.
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) Write a program and draw a flow chart to find the factorial value of any number entered through the keyboard.

Que. 3: Solve Any Four   **(4* 5) M**

    (a) differences between Flow chart & Algorithms
    (b) Write a program to find the smallest among three numbers.
    (c) Differentiate Between Compiler and Interpreter.
    (d) write a program to find the sum of numbers from 10 to 1000.
    (e) Write a program to swap the two number using three variables