

CC2

Time- 1Hr.

$$4 \times 1.5 = 6$$

```
#include <stdio.h>
int main()
{
    int a[5] = {1, 2, 3, 4, 5};
    int i;
    for (i = 0; i < 5; i++)
        if ((char)a[i] == '5')
            printf("%d\n", a[i]);
        else
            printf("FAIL\n");
}
```

- a) char b) int c) float d) double

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = -3;
5.        int k = i % 2;
6.        printf("%d\n", k);
7.    }
```

- ```
1. #include <stdio.h>
2. int main()
3. {
4. int i = 3;
5. int l = i / -2;
6. int k = i % -2;
7. printf("%d %d\n", l, k);
8. return 0;
9. }
```

- a) Compile time error      b) -1 1      c) 1 -1      d) Implementation defined

5. What will be the output of the following C code?

```
1. #include <stdio.h>
2. void main()
3. {
4. int x = 5.3 % 2;
5. printf("Value of x is %d", x);
6. }
```

- a) Value of x is 2.3                      b) Value of x is 1
- c) Value of x is 0.3                    d) Compile time error

6. What will be the output of the following C code?

```
1. #include <stdio.h>
2. void main()
3. {
4. int y = 3;
5. int x = 5 % 2 * 3 / 2;
6. printf("Value of x is %d", x);
7. }
```

- a) Value of x is 1                      c) Value of x is 2
- b) Value of x is 3                    d) Compile time error

## Q2. Answer Any 4 Question(Each Carrying 6 marks)

**4X6=24**

1. Write a c code to check whether string entered is a palindrome or not without using string library functions.
2. Discuss the differences between while and do-while, break and continue with suitable example. Discuss the static and register storage class.
3. Write a c code to find out prime numbers between 2 and 2000.
4. Define recursion. Write a c code to find out the factorial of a number using recursion.
5. Write a c code find out GCD and LCM of two numbers.
6. Write a c code to add the two matrices.