

Mid-Term Examination, Odd Semester 2021-22

B.Tech 1st Year

COMPUTER PROGRAMMING (BCSG0002)

Time: 2 Hours

Maximum Marks: 30

Section- A

Note: Attempt All Three Questions.

3 x 2 = 6 Marks

1. What is the output of the following programs

```
#include <stdio.h>
int main()
{
    int a=60,b=10,k;
    k=(a!=10) && (b=50);
    printf("%d",k);
    return 0;
}
```

2. What is the output of the following programs

```
#include <stdio.h>
int main()
{
    int x=1;
    if(!x)
        printf("x= %d",!x);
    else
        printf("x= %d",x);
    return 0;
}
```

3. Write a program to swap two numbers without using Additional operators or 3rd variable.

Section- B

Note: Attempt All Three Questions.

3 x 3 = 9 Marks

1. What is the output of the following programs

```
#include <stdio.h>
int main()
{
    int i = 0;
    do
    {
        printf("HELLO");
    } while (i++);
    return 0;
}
```

2. What is the output of the following programs

```
#include <stdio.h>
int main()
{
    int i = 0;
    switch (i)
    {
        case '0': printf("GLA");
        break;
        case '1': printf("University");
        break;
        default: printf("Mathura");
    }
    return 0;
}
```

3. Write a program to check number is even or odd using switch case (without if).

Section – C

Note: Attempt Any Three Questions.

3 x 5 = 15 Marks

1. Write a program to multiply a number by 31 without using multiplication operator.
2. Write a program to check whether a number is strong number or not.
3. Write a program to print Fibonacci series up to n numbers.
4. Write a program to print the below pattern

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```