

U.G. 3rd Semester Examination - 2020

COMPUTER SCIENCE

[HONOURS]

Generic Elective Course (GE)

Course Code : COM.SC-H-GE-P-101

[PRACTICAL]

Full Marks : 20

Time : 2 Hours

Distribution of Marks:

Experiment : 10

Notebook : 5

Viva : 5

Answer any one question to be allotted on lottery basis.

10

1. Write a C program to read a line of text and output the number of words and characters in it.
2. Write a C program to multiply two 2×2 matrices.
3. Write a C program to copy string without using strcpy().
4. Write a C program to find the frequency of characters in a string.
5. Write a C program to check whether a number is Armstrong number or not.

[Turn over]

6. Write a C program to convert a binary number to decimal.
7. Write a C program to convert a decimal number to binary.
8. Write a C program to display the pattern like a pyramid with numbers increased by 1.

```
1
2 3
4 5 6
7 8 9 10
```

9. Write a program in C to display the pattern like right angle triangle with a number. The pattern like :

```
1
1 2
1 2 3
1 2 3 4
```

10. Write a C program using recursive function to obtain the first 25 numbers of a Fibonacci sequence.
11. Write a C program using function to determine whether the year is a leap year or not.
12. Write a C program using C function to calculate the factorial value of any integer entered through the keyboard.

13. Write a C program to add two 6×6 matrices.
14. Write a C program to calculate the power of a number using recursion where power as well as number should be taken as input.
15. Write a C program to swap two numbers using pointers.
16. Write a C program to find area and circumference of a given circle.
17. Write a C program to convert string from upper case to lower case.
18. Write a C program to check if given number is palindrome or not.
19. Write a C program to remove duplicate element(s) in an array.
20. Write a C program to find the sum of digits of a given number.
