

B.Sc (Honours) FIRST SEMESTER EXAMINATION,2021  
RAMANANDA COLLEGE

Subject: Computer Science

Course Code: SH/CSC/ 101/C-1

Course Title: Programming Fundamentals  
Using C/ C++ (Practical)

Course ID: 11521

Full Marks: 15

Time: 2Hrs

Answer any one of the following questions

(15)

1. WAP to print the sum and product of digits of an integer.
2. WAP to reverse a number.
3. WAP to compute the sum of the first n terms of the following series  
 $S = 1 + 1/2 + 1/3 + 1/4 + \dots$
4. Write a function that checks whether a given string is Palindrome or not. Use this function to find whether the string entered by user is Palindrome or not.
5. Write a function to find whether a given no. is prime or not. Use the same to generate the prime numbers less than 100.
6. WAP to compute the factors of a given number.
7. Write a macro that swaps two numbers. WAP to use it.
8. WAP to print a triangle of stars as follows (take number of lines from user):

```
      *
     ***
    *****
   ********
  *********
 *****
```

9. Write a program that swaps two numbers using pointers.
10. WAP to perform following actions on an array entered by the user:
  - i)Print the even-valued elements
  - ii)Print the odd-valued elements