129/Comp.Sc

UG/1st Sem/Com.Sc-H-GE-L-101/20

U.G. 1st Semester Examination - 2020 COMPUTER SCIENCE [HONOURS]

Generic Elective Course (GE)
Course Code: Com.Sc-H-GE-L-101

(Computer Fundamentals and Programming using C)

Full Marks : 40 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

- 1. Answer any **five** questions: $2 \times 5 = 10$
 - a) What are syntax error and logical error?
 - b) What is the difference between while loop and do-while loop?
 - c) What is ternary operator?
 - d) What is type casting?
 - e) What do you mean by scope of a variable?
 - f) What is structure? Give an example.
 - g) What is recursive function?

GROUP-B

2. Answer any **two** questions:

 $5 \times 2 = 10$

- a) Explain break and continue statements using examples.
- b) State and explain five string functions with examples. 5
- What do you mean by function argument,function call and function prototype?
- d) Define array. Write a C program to check whether a number is even or odd. 1+4=5

GROUP-C

Answer any two questions:

 $10 \times 2 = 20$

- 3. a) Explain different logical operators in C with examples.
 - b) Describe briefly various built-in read and write functions used to handle data in text and binary files. 4+6=10
- 4. a) What do you mean by library function and user defined function? Explain with examples.
 - b) Write a C program using function to compute the product of the digits of a given integer.

4+6=10

- 5. a) Write a C program to check whether a number is perfect or not. A perfect number is a positive integer that is equal to the sum of its positive divisors, excluding the number itself.
 - b) While purchasing certain items, a discount of 10% is offered if the quantity purchased is more than 1000. If quantity and price per item are given input through the keyboard, write a C program to calculate the total expenses.

5+5=10

6. Write short notes on any **two** of the following:

 $5 \times 2 = 10$

- a) Data types in C
- b) Storage classes in C
- c) Logical error and syntax error
