

H

Roll No. ....

## TBC-101/TBI-101

B. C. A./B. Sc. (IT)

(FIRST SEMESTER) MID SEMESTER

EXAMINATION, Nov., 2022

(PROGRAMMING CONCEPTS USING  
C LANGUAGE

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing  
any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Define algorithm. Explain its applications  
in brief. (CO1)

OR

(b) What is a flowchart ? Explain with a  
suitable example. Also explain all the  
symbols used in flowchart. (CO1)

2. (a) Draw flowchart to find the largest number  
from given 4 numbers. (CO1)

P. T. O.

(2) TBC-101/TBI-101

OR

- (b) Write a program in C to convert Fahrenheit temperature into Celsius temperature. (CO1)

3. (a) Explain the difference between Modifiers, Identifiers and Keywords in C with example. (CO1)

OR

- (b) Explain constant in C programming. Briefly describe different types of constants used in C programming. (CO1)

4. (a) Write a C program that imitates calculator's behaviour using if else (Demonstrate the operations for add, multiply, subtract, divide and remainder). (CO2)

OR

- (b) Write a program in C to swap two numbers using a third variable and also without using the third variable. (CO2)

(3)

5. (a) Define operators in C. Explain Arithmetic, Logical, Bitwise and Assignment operator in C. (CO2)

OR

- (b) Explain various loops used in C programming. Write a C program to find average of  $n$  numbers. (CO2)

TBC-101/TBI-101

1900