

H

Roll No.

TBC/TBI-101

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

(FIRST SEMESTER)

MID SEMESTER EXAMINATION, 2021-22

COMPUTER FUNDAMENTALS AND
PROGRAMMING CONCEPTS USING 'C'
LANGUAGE

Time : 1 : 30 Hours

Maximum Marks : 50

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

(ii) Each question carries 10 marks.

1. (a) What do you understand by a programming language ? Explain the characteristics of C programming language. (CO1)

P. T. O.

(2)

TBC/TBI-101

OR

- (b) Explain life cycle of a C program by using a neat diagram only which consists all compilation steps and extension of files generated during these steps. (CO1)
2. (a) Draw a flowchart and write a C program to find inputted number is positive, negative or zero. (CO1)

OR

- (b) Draw a flowchart and write a C program to find largest of three inputted numbers. (CO1)
3. (a) Draw and explain all the symbols used in Sequential Flowcharts, Conditional Flowcharts and Iterative Flowcharts. (CO1)

OR

- (b) Write notes on the following with examples : (CO1)
- (i) Variable and Identifiers in C
- (ii) Relational and Logical operators

(3)

4. (a) Write notes on the following with examples : (CO2)
- (i) Bitwise and Ternary operator
- (ii) Logical and Relational operator

OR

- (b) Write a C program to accept the marks of a student in three subjects (Maximum Marks 100). If student scores more than 40%, then display "Pass" else display "Fails". (CO2)
5. (a) Write notes on the following with examples : (CO2)
- (i) Break and Continue
- (ii) Syntax and Working of Conditional Operator

OR

- (b) Draw a flowchart and write a C program to print the following pattern using nested loop : (CO2)

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

TBC/TBI-101

930