

Bachelor of Science (B.Sc.I.T.) Semester—I (C.B.S.) Examination
PROGRAMMING METHODOLOGY IN “C”
Paper—II

Time : Three Hours]

[Maximum Marks : 50

- N.B. :—** (i) **All** questions are compulsory and carry equal marks.
(ii) Draw neat and labelled diagram wherever necessary.

EITHER

1. (A) Write short notes on and explain with example :
 - (i) Sequence
 - (ii) Iteration. 5
- (B) Write an algorithm and draw a flowchart to find out whether the entered number is positive, negative or zero. 5

OR

- (C) Write and explain various characteristics of algorithm. 5
- (D) Explain various symbols used in flow-charting. 5

EITHER

2. (A) What are the different data types supported by ‘C’ language ? 5
- (B) What is type casting ? Explain with suitable example. 5

OR

- (C) Write a program to find out factorial of the entered number. 5
- (D) What is an operator ? Explain bitwise operator. 5

EITHER

3. (A) What is an Array ? Explain one and two dimensional array initialisation. 5
- (B) What is return data type ? Explain with suitable example. 5

OR

- (C) Explain the following user defined functions :
 - (i) No argument with Return Value
 - (ii) With argument with Return Value. 5
- (D) Write a program using one dimensional array to find out largest and second largest element. 5

EITHER

4. (A) What is structure ? Explain it with suitable example. 5
(B) Write a program to illustrate the concept of address operator. 5

OR

- (C) Explain pointer arithmetic in detail. 5
(D) What is command line argument ? Write a program to copy one file to another using the concept of command line argument. 5
5. Attempt **all** :
- (A) Explain Modular programming structure 2½
(B) Explain typedef. 2½
(C) Write a program to explain the concept of array of string. 2½
(D) What is open () and close () in file handling ? 2½