

B.C.A. Part-I (Semester-I) (CBCS) Examination
DATA STRUCTURE

1BCA3

Time : Three Hours]

[Maximum Marks : 80]

Note :—

- (1) All questions are compulsory.
- (2) Question no. 1 is compulsory.
- (3) Assume suitable data wherever necessary.

(C) Answer the following questions in one sentence each.

- (1) What is Binary tree?
(2) What is double linked list?
(3) What do you mean by recursion?
(4) What is edge?
(5) What is traversing? $1 \times 5 = 5$

2. (A) State and explain various algorithmic notations used in data structure. 6
(B) What is data structure? Explain various operations performed on data structure. 6

OR

3. (A) Explain the following terms :
(i) Time complexity
(ii) Space complexity

(B) Explain advantages & disadvantages of linear array data structure.

