

Total No. of Questions—12]

[Total No. of Printed Pages—4+1

**[3762]-207**

**S.E. (Computer) (II Sem.) EXAMINATION, 2010**

**DATA STRUCTURES**

**(2008 COURSE)**

**Time : Three Hours**

**Maximum Marks : 100**

**N.B. :-** (i) Answer any *three* questions from each Section.

(ii) Answers to the two Sections should be written in separate answer-books.

(iii) Neat diagrams must be drawn wherever necessary.

(iv) Figures to the right indicate full marks.

(v) Your answers will be valued as a whole.

(vi) Assume suitable data, if necessary.

**SECTION I**

1. (a) Write an algorithm for post-order recursive traversal of a binary tree, also write a 'C++' function for the same. [6]

(b) Explain the concept of :

(i) Full Binary Tree

(ii) Skewed Binary Tree. [4]

(c) (i) What is the use of a Threaded binary tree ?

(ii) Write an algorithm for the in-order Traversal of a Threaded Binary tree.

(iii) State any *two* applications of trees. [8]

P.T.O.

