CBSE NET DECEMBER 2007 PAPER II

The height of a binary tree with ‘n’ nodes in the worst case is

(A) 0(log n)
(B) O(n)
(C) Ω(n log n)
(D) $\Omega(n^2)$

Ans:- B

Explanation:-
Big omega notation is used for representing the average case. Big oh notation is used for representing the worst case. Big oh is a measure of the longest amount of time it could possibly take for any algorithm to complete. Since we are representing the height of a binary tree, it would be the maximum height possible in a tree with ‘n’ nodes and it is O(n). So, the correct answer is B.

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