

CBSE NET DECEMBER 2011 PAPER II

The number of nodes in a complete binary tree of height h (with roots at level 0) is equal to

- (A) $2^0 + 2^1 + \dots + 2^h$
- (B) $2^0 + 2^1 + \dots + 2^{h-1}$
- (C) $2^0 + 2^1 + \dots + 2^{h+1}$
- (D) $2^1 + \dots + 2^{h+1}$

Ans:-A

Explanation:-

A complete binary tree have 0 or 2 child per parent. So, count the number of nodes in each level, starting with the root, assuming that each level has the maximum number of nodes.

$$n = 1 + 2 + 4 + \dots + 2^{h-1} + 2^h$$

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