Biraly the is a non linear duta Ameniture

(i) Have nodes at level 1 - 2 h

$$0 - 1 = 0 \quad 2^{0} = 1$$

$$0 - 0 = 1 \quad 2^{1} = 2$$

$$0 - 0 = 2 \quad 2^{2} = 4$$

(ii) Hox nodes in a free of Leight H is 2#_1

$$\frac{1}{2}\sqrt{\frac{3}{5}}$$
 height = 3 = H
 $\frac{1}{2}\sqrt{\frac{3}{5}}$ height = 3 = H
 $\frac{1}{2}\sqrt{\frac{3}{5}}$ Hence proved. !

(iii) For a nodes, minimum possible hight or minimum no. of levels are log_ (N+i)