

**B.** Let  $N = 2^k \times 4^m \times 8^n$  where  $k, m, n$  are positive whole numbers. Then  $N$  will definitely be a square number whenever

- (a)  $k$  is even;
- (b)  $k + n$  is odd;
- (c)  $k$  is odd but  $m + n$  is even;
- (d)  $k + n$  is even.