

## Previous Year JEE Problems

Hydrogen has three isotopes (A), (B) and (C). If the number of neutron(s) in (A), (B) and (C) respectively, are (x), (y) and (z), the sum of (x), (y) and (z) is :

- A** 3
- B** 1
- C** 4
- D** 2

### Explanation

Hydrogen has three isotopes

(A) Protium ( ${}^1_1\text{H}$ ) has 0 neutron.

(B) Deuterium ( ${}^2_1\text{H}$ ) has 1 neutrons.

(C) Tritium ( ${}^3_1\text{H}$ ) has 2 neutrons.

Total number of neutrons in three isotopes of hydrogen =  $0 + 1 + 2 = 3$