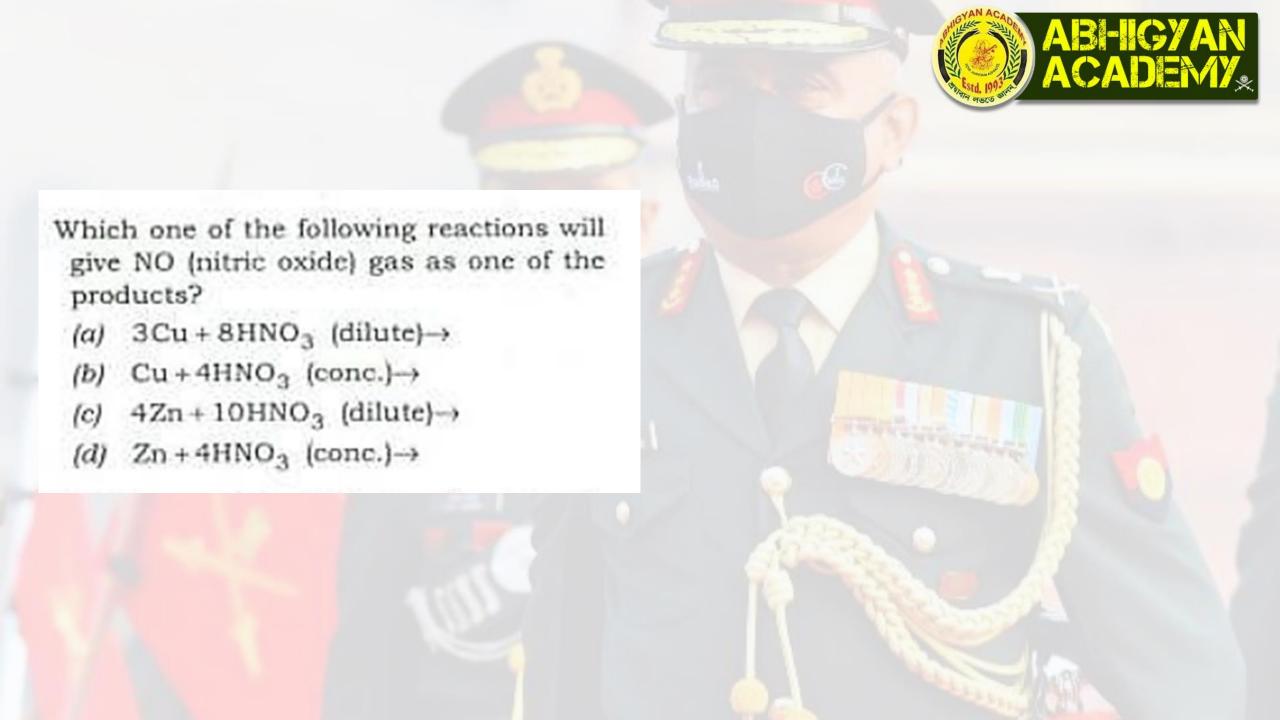


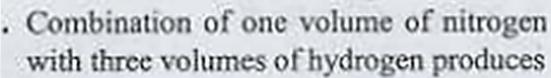
PYQs on Laws of Chemical Combinations, Chemical Equations

The proposition 'equal volumes of different gases contain equal numbers of molecules at the same temperature and pressure' is known as Avogadro's hypothesis (a) Gay-Lussac's hypothesis (b) (c) Planck's hypothesis (d) Kirchhoff's theory





ABHG/AN ACADEM/_{*}



- (a) one volume of ammonia
- (b) two volumes of ammonia
- (c) three volumes of ammonia
- (d) one and a half volumes of ammonia

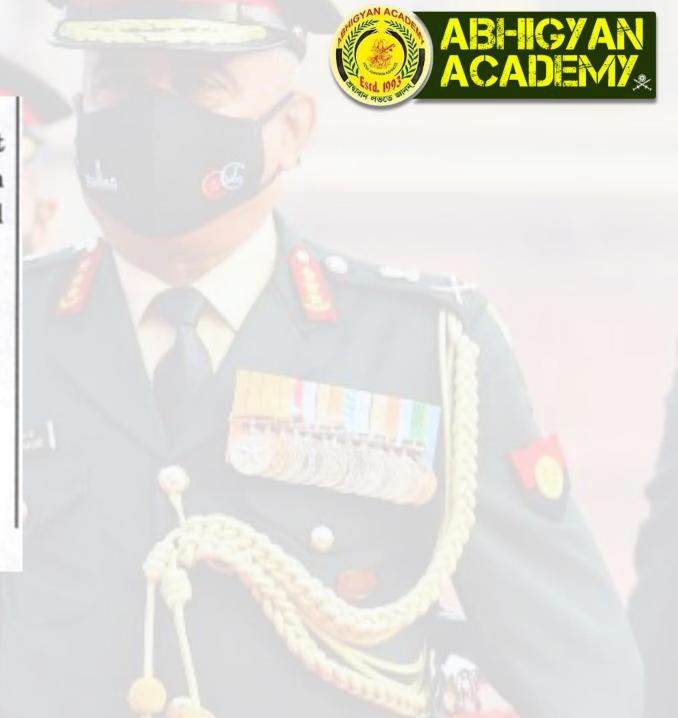


Ammonia (NH₃) obtained from different sources always has same proportion of Nitrogen and Hydrogen. It proves the validity of law of:

- (a) Reciprocal proportion
- (b) Constant proportion
- (c) Multiple proportions
- (d) None of the above

Equal volume of all gases, when measured at the same temperature and pressure, contain an equal number of particles. Who proposed the above law?

- (a) Charles
- (b) Boyle
- (c) Avogadro
- (d) Lussac



Note the following balanced chemical equation :

Which one of the following statements is significant in relation to the above chemical equation?

- (a) One can add to a vessel only 2 mol of CO for each mol of O₂ added
- (b) No matter how much of these two reagents are added to a vessel, 1 mol of O₂ is consumed
- (c) When they react, CO reacts with O₂ in a 2:1 mol ratio
- (d) When 2 mol of CO and 1 mol of O₂ are placed in a vessel, they will react to give 1 mol of CO₂

