

Q1. Which of the following equations is not balanced?

- a) $C + O_2 \rightarrow CO_2$
- b) $2AgCl \rightarrow 2Ag + Cl^2$
- c) $CaCO_3 \rightarrow CaO_2 + CO_2$
- d) $N_2 + O_2 \rightarrow NO$

Q2. The volume occupied by one gram of hydrogen gas at STP is:

- a) 22.4
- b) 5.6
- c) 11.2
- d) 44.8

Q3. Which of the following metal liberates hydrogen gas when reacted with dil.HCL?

- a) Ag
- b) Zn
- c) Cu
- d) Au

Q4. The colour of phenolphthalein indicator in NaOH solution is:

- a) pink
- b) yellow
- c) brown
- d) red

Q5. Which is the prefix used for functional group aldehyde?

- a) -al
- b) -ol
- c) formyl
- d) hydroxy

Q6. General formula of alkynes:

- a) C_nH_{2n}
- b) C_nH_n
- c) C_nH_{2n+2}
- d) C_nH_{2n-2}

Q7. The total number of inner transition elements in the modern periodic table is:

- a) 10
- b) 14
- c) 28
- d) 32

Q8. Pyrolusite is the ore of:

- a) Mn

- b) Mg
- c) Hg
- d) Zn

Q9. Nature of non-metal oxides is generally:

- a) acidic
- b) basic
- c) amphoteric
- d) neutral

Q10. Which of the following is not formed when metal carbonate reacts with dilute acid:

- a) Salt
- b) Carbon dioxide
- c) Hydrogen
- d) Water

