Chemistry Term 1
ANSWER KEY
SET – A

1. 6

2. 28 gm

3. H_2

4. a) 10
   b) $1s^2\ 2s^2\ 2p^6$

5. a) X = 2 ; Y = 600 ml
   b) Charle's Law

6. a) Na b) H_2

7. a) $1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 3d^6\ 4s^2$
   b) Group = 8^{th} group; Period = 4^{th} period
   c) $1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 3d^6$

8. a) 44 x 5 = 220 gm
   b) $5 \times 6.022 \times 10^{23}$

9. a) Impure Copper
   b) At Cathode: $Cu^{2+} + 2e^- \longrightarrow Cu$
   At Anode: $Cu \longrightarrow Cu^{2+} + 2e^-$

10. a) i . Cu^{1+}, ii Cu^{2+}
    b) Show variable oxidation state,
    Form coloured compounds,
    All are metals,
    The last electron filled in the penultimate shell. (Any two)
    c) Violet/ Purple

11. a) i. Avogadro's Law , ii Boyle's Law
    b) 2 L

12. a) Anode / Zn rode
    b) $Cu^{2+} + 2e^- \longrightarrow Cu$
    c) Anode / Negative electrode / Zn rode
    d) Mg