



SUBJECT – CHEMISTRY

DURATION – 30 mins

F.M. - 15

DATE – 14.11.20

1. Which of the compounds is known as Slaked lime?

- (a) CaO
- (b) CaSO_4
- (c) Ca(OH)_2
- (d) CaCO_3

2. Which of the ions have maximum hydration energy?

- (a) Sr^{2+}
- (b) Ca^{2+}
- (c) Mg^{2+}
- (d) Be^{2+}

3. As compared to K, Na has

- (a) higher ionization potential
- (b) lower melting point
- (c) lower electronegativity
- (d) larger atomic radius

4. Which one is the most stable carbonate?

- (a) BaCO_3
- (b) MgCO_3
- (c) CaCO_3
- (d) BeCO_3

5. Plaster of Paris (POP) is

- (a) $\text{CaSO}_4 \cdot \text{H}_2\text{O}$
- (b) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- (c) CaSO_4
- (d) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$

6. Which oxide is amphoteric?

- (a) BaO
- (b) CaO
- (c) BeO
- (d) MgO

7. Be shows the diagonal relationship with

- (a) Na
- (b) Al
- (c) Mg
- (d) B

8. The tendency to lose their valence electron easily by alkali metals makes them

- (a) strong reducing agent
- (b) weak reducing agent
- (c) strong oxidising agent
- (d) weak oxidising agent

9. Which one is known as a fusion mixture?

- (a) $\text{Na}_2\text{CO}_3 + \text{NaHCO}_3$
- (b) $\text{Na}_2\text{CO}_3 + \text{NaOH}$
- (c) $\text{Na}_2\text{CO}_3 + \text{K}_2\text{SO}_4$
- (d) $\text{Na}_2\text{CO}_3 + \text{K}_2\text{CO}_3$

10. Find the incorrect trend for alkaline earth metals

- (a) atomic size $\text{Be} < \text{Mg} < \text{Ca} < \text{Sr}$

(b) second ionization energy $\text{Be} < \text{Mg} < \text{Ca} < \text{Sr}$

(c) Hydration enthalpy $\text{Sr} < \text{Ca} < \text{Mg} < \text{Be}$

(d) Density $\text{Ca} < \text{Mg} < \text{Be} < \text{Sr}$

11. Which of the following sulphates is not soluble in water?

- A. Sodium sulphate
- B. Potassium sulphate
- C. Zinc sulphate
- D. Barium sulphate

12. The element Cesium bears resemblance with

- a) Ca
- b) Cr
- c) Both of the above
- d) None of the above

13. Which one of the following substances conduct electricity by the movement of ions?

- a) Graphite
- b) Copper
- c) Molten sodium chloride
- d) Mercury

14. Crystals of $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$ when exposed to air

- a) Lose water and remain solid
- b) Gain water and remain solid
- c) Gain water and become [liquid](#)
- d) Remains unchanged

15. Ammonia may be prepared by heating ammonium chloride with

- a) Water
- b) NaCl
- c) Aqueous sodium hydroxide
- d) H_2SO_4

PREPARED BY: MR. ARNAB PAUL CHOWDHURY