

ILM KI DUNYA**CHEMISTRY :12TH CLASS****CHAPTER – 2****SECTION – MCQ'S****S – BLOCK ELEMENTS**

- Sylvite is an important ore of.
(a) Lithium (b) Sodium **(c) Potassium** (d) Magnesium
- Which element form super oxide when reacts with excess O₂
(a) Li (b) Na **(c) K** (d) Be
- Better reducing agent among alkali metal is.
(a) Li (b) Na (c) K **(d) Rb**
- Which oxide is water insoluble?
(a) **BeO** (b) SrO (c) BaO (d) Na₂O
- Nitrate of which element form normal oxide, NO₂ and O₂ on heating.
(a) **Li** (b) Na (c) K (d) Rb
- Plaster of Paris is.
(a) CaSO₄.H₂O (b) (CaSO₄)₂.H₂O (c) CaSO₄.2H₂O (d) (CaSO₄)₂. ½ H₂O
- Oxide of which element is often employed as dehydrating agent.
(a) Li (b) Mg **(c) Ca** (d) Ra
- Which one of the following does not belong to alkaline earth metals?
GRW-2014,AJK,GRW,F.B.MTN-2015,F.B.LHR.2017.MTN.2016
(a) Be (b) Ra (c) Ba **(d) Rn**
- The oxide of beryllium is.
GRW – 2014, MTN,RWP-2015
(a) Acidic (b) Basic **(c) Amphoteric** (d) None of these
- Which ion will have the maximum value of heat of hydration?
(a) Na⁺ (b) Cs⁺ (c) Ba²⁺ **(d) Mg²⁺**
- Which one of the following is not an alkali metal?
DGK-2016, SWL-2017
(a) Francium (b) Cesium (c) Rubidium **(d) Radium**
- Which of the following sulphates is not soluble in water?
(a) Sodium Sulphate (b) Potassium Sulphate (c) Zinc Sulphate **(d) Barium Sulphate**
- The element cesium bears resemblance with.
(a) Ca (b) Cr (c) Both of the above **(d) None of the above**
- Chile salt peter has the chemical formula.
RWP-2014,DGK,LHR-2015
(a) **NaNO₃** (b) KNO₂ (c) Na₂B₄O₃ (d) Na₂CO₃.H₂O
- The ore CaSO₄.2H₂O has the general name.
LHR,SGD,F.B – 2016,SGD,MTN-2017
(a) **Gypsum** (b) Dolomite (c) Calcite (d) Epsom salt
- Down's cell is used to prepare.
(a) Sodium carbonate (b) Sodium bicarbonate (c) **Sodium metal** (d) Sodium hydroxide
- Which element is deposited at the cathode during the electrolysis of brine in Nelson's cell?
(a) **H₂** (b) Na (c) Cl₂ (d) O₂
- CaMg₃(SiO₃)₄ is the composition of.
(a) Dolomite (b) Gypsum (c) Calcite **(d) Asbestos**
- In which ore carbon is present.
(a) Magnesite (b) Epsom salt (c) Barite (d) Sylvite
- Which element is present in chlorophyll?
(a) Ca **(b) Mg** (c) K (d) Be
- Which metal is least reactive?
(a) **Li** (b) NaOH (c) K (d) Pb
- Which hydroxide decomposes on heating?
(a) **LiOH** (b) NaOH (c) KOH (d) CaOH
- Which one of the following pairs of metal reacts directly with nitrogen?
(a) Na and Mg **(b) Li and Mg** (c) Mg and Ca (d) Li and Be
- Alkali metal whose carbonate is relatively less stable and decomposes giving its oxides is.
(a) **Li** (b) Ba (c) K (d) Rb

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25. Which one of the following has lowest first ionization energy?
 (a) Li (b) Na (c) Rb **(d) Cs**
26. Which is more basic
 (a) **RbOH** (b) NaOH (c) KOH (d) LiOH
27. Which gas is evolved when CO_2 is passed through KO_2 ?
 (a) O_2 (b) CO (c) O_3 (d) None of these
28. The crystals of caustic soda, NaOH, are hygroscopic when these crystals are exposed to air.
 (a) **Gain water and remains solid** (b) Gain water and becomes liquid
 (c) Lose mass and remain solid (d) Remains unchanged on heating
29. Which element reacts with carbon to form metal carbide?
 (a) **Li** (b) Na (c) K (d) All of these
30. Magnesium metal does not burn in the jar of.
 (a) N_2 (b) O_2 (c) N_2 and O_2 **(d) Ne**
31. When carbon dioxide is bubbled through limewater, white precipitate is formed. This precipitate is.
 (a) COCl_2 (b) H_2CO_3 (c) CaO **(d) CaCO_3**
32. Oxides of alkaline earth metal are.
 (a) Acid **(b) Basic** (c) Neutral (d) Amphoteric
33. Which element reacts with alkali and H_2 gas is produced.
 (a) **Be** (b) Mg (c) Ca (d) Sr
34. Setting of plaster of Paris is accompanied with.
 (a) Hydrogen bonding **(b) Hydration** (c) Dehydration (d) None of these
35. The formula of slaked lime is.
 (a) CaO (b) CaCO_3 (c) $\text{Ca}(\text{HCO}_3)_2$ **(d) $\text{Ca}(\text{OH})_2$**
36. Which one of the following elements has the same oxidation number in all its known compounds?
 (a) **Beryllium** (b) Nitrogen (c) Sulphur (d) Chlorine
37. Which one of the following alkaline earth metal form peroxide when heated with oxygen at 600°C .
 (a) Magnesium (b) Calcium (c) Strontium **(d) Barium**
38. Which oxide is amphoteric in nature?
 (a) **BeO** (b) MgO (c) CaO (d) BaO
39. Which is called milk of magnesia.
 (a) MgCO_3 **(b) $\text{Mg}(\text{OH})_2$** (c) MgSO_4 (d) MgCl_2
40. Which is insoluble in water. **AJK-2015.SGD-2017**
 (a) BeSO_4 (b) MgSO_4 (c) CaSO_4 **(d) BaSO_4**
41. Sodium is collected over molten sodium chloride in Down's cell, because.
 (a) It does not react with NaCl **(b) It is lighter in weight and floats on molten NaCl**
 (c) Its reactivity is greater than NaCl (d) None of these
42. In Down's cell, anode is made up of.
 (a) Iron (b) Copper **(c) Graphite** (d) Platinum
43. Which substance is used to lower the melting point of NaCl in Down's cell.
 (a) CaCO_3 **(b) CaCl_2** (c) MgSO_4 (d) AlCl_3
44. Which one of the following compounds is used to make spray, which has fungicidal action?
 (a) BaSO_4 (b) Na_2CO_3 **(c) CaO** (d) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
45. Sulphur is essential constituent for plants. Which is not role of sulphur.
 (a) Chlorophyll development (b) Development of root system
 (c) Constituents of some proteins **(d) Increase transpiration force**
46. When water is added to plaster of Paris, it changes to a hard mass. Its volume also expands up to.
 (a) **1%** (b) 2% (c) 3% (d) 5%
47. Which one is no use of lime?
 (a) Extraction of metals (b) Ceramic industry (c) Preparation of bleaching power
(d) Preparation of gypsum
48. The word alkali is derived from which language? **RWP.2016**
 (a) **Arabic** (b) Greek (c) French (d) German
49. Which one of the following is not an alkali metal?
 (a) Francium (b) Caesium (c) Rubidium **(d) Radium**

50. The element cesium bears resemblance with.
 (a) Ca (b) Cr (c) Both **(d) None** DGK-2016
51. Natron has the chemical formula.
 (a) NaNO_3 (b) KNO_2 (c) Ca_2CO_3 **(d) $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$** DGK-2016
52. Dolomite is a carbonate of.
 (a) Be **(b) Mg** (c) Na (d) Ba DGK-2016
53. The mineral $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ has the general name.
(a) Gypsum (b) Dolomite (c) Calcite (d) Epsom salt LHR-2014
54. Which is the least reactive of all the alkali metals?
(a) Li (b) Na (c) K (d) Cs LHR-2016
55. Point out the element which forms super oxide.
 (a) Li (b) Na **(c) K** (d) C MTN-2017
56. The most metallic element from the following is.
 (a) Arsenic (b) Oxygen (c) Antimony **(d) Bismuth** BWP-2014
57. The milk of magnesia is used for the treatment of.
 (a) Basicity (b) Rancidity **(c) Acidity** (d) Jaundice DGK-2014
58. The oxides of beryllium are.
 (a) Acidic (b) Basic **(c) Amphoteric** (d) None of these SGD -2015
59. Which of the following gas will turn lime water milky?
 (a) Cl_2 (b) NO_2 (c) CO **(d) CO_2** RWP-2017
60. Which ion will have the maximum value of heat of hydration?
 (a) Na^+ (b) Cs^+ (c) Ba^{+2} **(d) Mg^{+2}** SWL- 2014
61. In Down's cell CaCl_2 is added to NaCl to.
 (a) Increase solubility (b) Increase the dissociation
 (c) Increase conductivity **(d) Lower its melting point** RWP- 2017
62. Nelson's cell is used to prepare.
(a) NaOH (b) Na_2CO_3 (c) Na metal (d) NaCl RWP- 2017
63. Which one of the following is applied on walls as white wash?
 (a) Lime water **(b) Milk of lime** (c) Milk of magnesia (d) Lime stone F.B-2014
64. Elements of group IA are called.
(a) Alkali metals (b) Metalloids (c) Alkaline metals (d) Coinage metals
65. LiNO_3 decompose to give products.
(a) $\text{Li}_2\text{O} + \text{NO}_2 + \text{O}_2$ (b) $\text{Li}_2\text{O} + \text{NO} + \text{O}_2$ (c) $\text{Li}_2\text{O} + \text{NO}$ (d) $\text{Li}_2\text{O}_2 + \text{NO}_2 + \text{O}_2$
66. Carnalite is the mineral of.
 (a) Be **(b) Mg** (c) Na (d) Ca
67. Element of group II A are called. F.B-2014
 (a) Alkali metals **(b) Alkaline earth metal** (c) Coinage metal (d) Halogens
68. Which element is deposited at the cathode during the electrolysis of brine in diaphragm cell?
F.B- 2014, DGK-2015, RWP, MTN-2017
(a) H_2 (b) Ba (c) Ra (d) Rn
69. The element cesium bears resemblance with. SGD -2015
 (a) Ca (b) Cr (c) Both **(d) None**
70. Which metal oxide is insoluble in water? SGD- 2014
(a) MgO (b) CaO (c) SrO (d) BaO

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