## Most Important Orders In Chemistry

Li>Na>K>Rb>Cs

2. Colour of the flame Li-Red, Na-Golden, K-violet, Rb-Red , Cs-Blue , Ca-Brick Red, Sr-Blood Red, Ba-Apple green

3. Stability of hydrides LIH > NaH > KH > RbH > CSH

4. Baric Nature of hydroxides LIOH < NaOH < KOH < ROOH < CSOH

5. Hydration Energy Li>Na>k> Rb>Cs

6. Reducing character Li > Cs > Rb > K > Na

7. Stability of +3 Oxidation state B> Al > Ga > In > TI

8. Stability of +1 Oxidation state Gra LIn LTI

9. Baric Nature of Oxides and hydroxides BCALL GracineTI

10. Relative strength of Lewis Acid BF3 < BCl3 < BBr3 < BI3

11. Tenisation Energy B>Al<Ga>In<TI

12. Reactivity C<Si< Ge<Sn<Pb 13. Metallic Character C < Si < Ge < Sn < Pb

14. Acidic Character of the Oxides (02 > SiO2 > Cre O2 > SnO2 > Pbo2

15. Reducing nature of hydrides CHY < Sitty < Ge Hy < Snty < PbHy

16. Thermal stability of tetrahalides Coly > sidy > Greely > Sndy > Pbdy

rnavsir 17. Oxidising character of M+4 Species Grecly < Sndy < Pbdy

18. fase of hydrolysis of tetrahalides sidy < Gredy < Sndy < Pbdy

19. Acidic strength of trioxides N203 7 P203 7 A52 O3

20. Acidic strength a pentoxides N202 7 P202 7 AS202 7 Sb202 7 Bi202

21. Acidic strength of oxides of Nitrogen N20 < N0 < N203 < N204 < N205

22. Basic nature / bond angle / thermal stability and dipole moment of hydrides NH3 > PH3 > ASH3 > Sb H3 > BiH3

23. Stability of tribalides of Nitrogen NF3 < NU3 < NBr3

24. Lewis base strength NF3 < NU3 < NBr3 < NI3

25. Ease of hydrolysis of trichlorides NU3 > PU3 > Asd3>SbU3 > Bid3

26. lewis acid strength of tribalides of P, As and Sb Pcl3 > Ascl3 > Sbcl3

27. Lewis acid strength among phosphorus bribalides PF3 >PU3 > PBY3 >Pl3

28. Melting and Boiling point of hydrides H2O7 H2Te>H2Se> H2S

29. Velatility of hydrides H2O < H2Te < H2Se < H2S

30. Reducing nature of hydrides H2S < H2Se < H2Te

31. Covalent character of hydrides H2O < H2S < H2Se < H2Te

32. The acidic character of oxides (elements in same oxidation state) SO, 7 SeO, > TeO, > POO, > SO, > SeO, > TeO,

33. Acidic character of oxide of a particular element (eg.5) SO < SO2 < 503 < SO2 > TEO2 > SEO2 > POO2

34. Bond energy of halogens Q2>BY2>F2>I2

35. Solubility of halogen in water F2 > Cl2 > Br2 > I2

36. Oxidising Power Fo7 Cl2 7 Br2> I2

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38. Reactivity of halogens F>U>Br>I

39. Ionie character of M-X bond in halides M-F>M-C1>M-Br>M-I

40. Reducing character of Xion I->Br->U->F-

41. Acidic Strength of halogen acids HI >HBY >HCl >HF

42. Reducing property of halogen halides HF < HCl < HBV < HI

43. Oxidising power of oxides of chlorine d20> d02 7 d206 > d207

44. Decreasing ionic size 02>F- > Na+> Mg2+

45. Increasing acidic property Nazo3 < Mgo < Zno < P2O5

46. Increasing bond length N2<02<F2<d2

47. Increasing size ca2+ < cl- < 52-

48. Increasing acid strength HQO < HQO2 < HQO3 < HQO4

49. Increasing oxidation number of iodine HICI2 < Ice < HIO4

50. Increasing thermal stability HOU < HOUO < HOUOZ < HOU3