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Chemistry 2013

3. Orbital is

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- (a) circular path around the nucleus in which electrons are revolves
- (b) space around the nucleus where the probability of finding the electron is maximum
- (c) amplitude of electrons wave
- (d) None of the above

Ans.(b)

7. In the oxyacids of chlorine, Cl—O bond contains

- (a) dit dit bonding
- (b) *dn* pit bonding
- (c) pit pit bonding
- (d) None of the above

Ans.(b)

8. Anhydrous MCI3 fume in air due to

- (a) oxidation (b) hydrolysis
- (c) reduction (d) hydrogenation

Ans.(b)

13. Which of the following reaction doesn't support the acidic nature of alkyne?

- (a) Reaction with HBr
- (b) Reaction with Grignard reagent
- (c) Reaction with ammoniacal %ilver salt
- (d) Reaction with metallic sodium

Ans.(a)

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18. Complete hydrolyses of cellulose gives

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- (a) D-fructose (b) D-ribose
- (c) D-glucose (d) L-glucose

Ans.(c)

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- 21. Benzaldehyde condenses with N,N-dimethyl aniline in presence of anhydrous ZnCI2 to give
- (a) azo dye (b) malachite
- (C) michlers ketone (d) buffer yellow

Ans.(b)

- 22. Which of the following reactions is given by only primary amines?
- (a) Reaction with HNO2
- (b) Reaction with chioruform and alcoholic KOH
- (C) Reaction with acetyl chloride
- (d) Reaction with Grignard reagent

Ans.(b)

- 26. Aldehyde not showing cannizzaro's reaction is
- (a) paraldehyde (b) choraI
- (c) formaldehyde (d) acetaldehyde

Ans.(d)

- 28. Which of the tollowing statements is not correct?
- (a) All alcohols are miscible with water
- (b) Only lower alcohols are miscible with water
- (C) All alcohols are not poisonous
- (d) Methanol IS poisofloUS

Ans.(a)

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29. Cyclohexanol is

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- (a) phenol (b) 1 alcohol
- (c) 2 alcohol (d) 3 alcohol

Ans.(c)

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- 30. In the manufacture of ethanol from sugar the enzymes are
- (a) diastase and zymase
- (b) maltase and zymase
- (c) diastase and invertase
- (d) invertase and zvmase

Ans.(d)

- 31. The action of chioral on chlorobenzene gives
- (a) BIIC (d) DIYI
- (C) g:irnmext'ne (d) lindanc

Ans.(b)

- 32. Vhich halide will 1x least reactive in repect to hydrolysis?
- (a) vinyl chloride (b) ally1 chloride
- (c) ethyl chloride (d) t-butyl chloride

Ans.(a)

- 33. By Wurtz reaction, a mixture of methyl iodide and ethyl iodide gives
- (a) butane
- (b) ethane
- (c) propane
- (d) a mixture of above three

Ans.(d)

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- 34. The cyanide process is used for obtaining
- (a) Cu (b) Na
- (C) Zn (d) Ag

Ans.(d)

- 35. Which of the following ore does not represent the ores of iron?
- (a) Cassitente (b) Limonite
- (c) Haenatite (d) Magnetite

Ans.(a)

- 36. vanArkel method of punficati'n of metals involves converting the metal to a
- (a) volatile stable compound
- (b) non.volatile stable compound
- (c) volatile unstable compound
- (d) None of the above

Ans.(a)

- 37. The tirst element of rare earth metal is
- (a) cerium (b) cesium
- (C) lanthanide (d) actinide

Ans.(a)

38. Which of the following transitions involves maximum amount of energy?

$$(a)M_{-}(g)$$
— $M(g)$

$$(b)M_{(g)}-m+$$

$$(c)M(S)-M2+(g)$$

$$(d)M2+(g)-m3+(g)$$

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Ans.(d) 39. Transition metal with low oxidation number will act as (a) an oxidising agent (b) a base (c) an acid (d) None of these Ans.(a) 40. Chloride of which of the following element is coloured? (a) Hg (b) Ag (c) Co (d) Zn Ans.(c) 41. Spiegeleisn i an alloy of (a) Fe, Co and Cr (b) Fe, Co and Mg (c) Fe. Mg. and C (d) Fe, C and Mn Ans.(d) 44. Which of the following is a wrong statement? (a) Ni(CO)4 has zero oxidation number for Ni **(b)** Ni(CO)4 has oxidation number +4 for Ni (C) Ni is metal (d) *CO* is gas Ans.(b) 46 Standard electrode porernial of NHE a 298 K is (a)0.OSV (b)0.10v(c) 0.50 V (d) 0.00 V

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Ans.(d)

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- 49. Multirnolccular colloids are present in
- (a) soap solution (b) sol of proteins
- (c) sol of gold (d) All of these

Ans.(c)

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- 50. In physical adsorption, the gas molecules are held by solid surfaces through
- (a) stiong chemical forces
- (b) van der waals' forces
- (c) metallic bonds
- d) gravitational forces

Ans.(b)

- 51. The osmotic pressure of a 5% (wt./voi) solution of cane sugar at 150C is
- (a) 3.078 atm (b) 4.078 atm
- (c) 5.078 atm (d) 2.45 atm

Ans.(c)

- 53. The p11 of a solution is increased from 3 to 6. its H' ion concentration will be
- (a) reduced to half
- (b) doubled
- (c) reduced by 1000 times
- (d) increased by 1000 times

Ans.(c)

- 56. Radioactive decay is a
- (a) first order reaction
- (b) zero order reaction
- (c) second order reaction
- (d) third order reaction

Ans.(a)

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59. An ideal gas at constant temperature and pressure expands, then Its

- (a) internal energy remains same
- (b) internal energy decrease
- (c) internal energy increases
- (d) entropy first increases and then decreases

Ans.(a)

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