

LAST LOOK**Question (no.1)****Choose the correct answer :**

- 1- Hydrochloric acid reacts with each of the following except
- a) Ethylene b) Ethanol c) Ethyne d) Phenol
- 2- 2-Methyl pentane contains methylene (-CH₂-) groups.
- a) 2 b) 3 c) 4 d) 5
- 3- In the reactions : $2\text{SO}_{3(g)} \rightleftharpoons 2\text{SO}_{2(g)} + \text{O}_{2(g)}$
- When using a smaller closed container , the equilibrium constant (K_c)..
- a) decreases b) increases c) doesn't change d) doubles
- 4- Alkanes react with chlorine in indirect sunlight in a an reaction .
- a) Elimination b) addition
- c) substitution d) Direct combination
- 5- A solution of sodium hydroxide of 0.01 molar concentration , its pH.....
- a) 12 b) 14 c) 2 d) 7
- 6- No. of moles of NH₃ gas in 72 litres at S.T.P =
- a) 3.6 moles b) 2.3 moles c) 3.2 moles d) 6.3 moles
- 7- The number of isomers for C₅H₁₂ is
- a) 2 b) 3 c) 4 d) 5
- 8- The mass of gold precipitated by passing 96500 coulombs in a solution of gold (III) chloride is
- a) 3 moles b) 1 mole c) $\frac{1}{3}$ moles d) 2 moles
- 9- Reduction in the dry cell occurs to
- a) the graphite rod b) zinc chloride
- c) zinc d) Manganese dioxide
- 10- The products of the hydrolysis of sodium carbonate are carbonic acid and
- a) sodium & hydrogen ions b) sodium hydroxide
- c) sodium & hydroxide ions d) sodium & carbonate ions
- 11- stated the relation between the speed of chemical reactions and the concentration of the reactants.
- a) Ostwald b) Le chatelier
- c) Guldberg & waege d) Kekule

12- The colour of methyl orange indicator in an acidic medium is

a) orange b) red c) yellow d) colourless

13- The pH value of the solution containing the least amount of $[\text{OH}^-]$ ions is

a) 1 b) 7 c) 10 d) 14

14) Sodium hydroxide (caustic soda) reacts with all except

a) Methyl acetate b) phenol
c) Benzoic acid d) ethanol

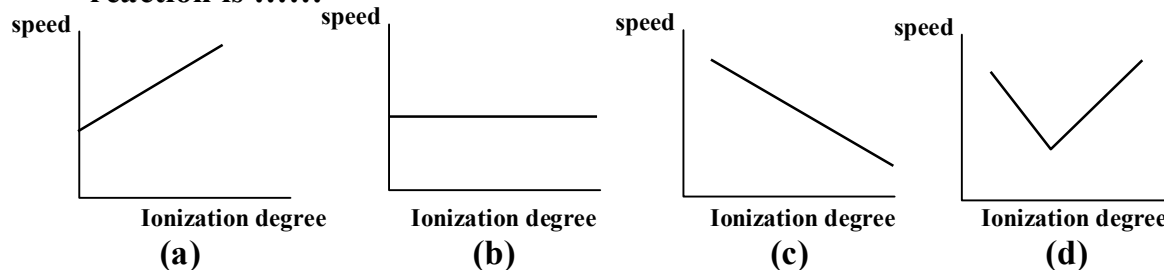
15- Bakelite is a polymer formed from

a) Terphthalic acid & ethylene glycol b) Formaldehyde & phenol
c) Phenol & acetaldehyde d) Acetic acid & ethanol

16- Dichlorodiphenyl trichloro ethane is

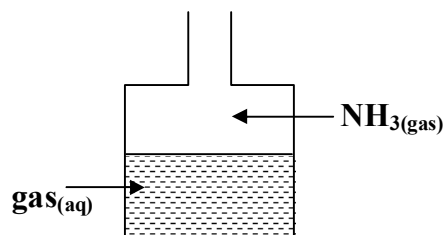
a) T.N.T b) D.D.T c) P.V.C d) P.C.B

17- The graph showing the relation between ionization degree and the speed of reaction is



18- The diagram shows a container containing NH_3 gas dissolved in water. Equilibrium can be reached by

- a) Adding more water
b) Adding more ammonia
c) cooling
d) closing the container



19- The number of atoms of NH_3 present in 8.5 grams is

a) Arogadro's number b) 2x Avogadro
c) $\frac{1}{2}$ x Avogadro d) 4 x Avogadro

20- No. of sodium ions present in one mole of sodium sulphate is ions.

a) 6.02×10^{23} b) 1.204×10^{23}
c) 12.04×10^{23} d) 3.01×10^{23}

21- In electrolytic cells, the anode is

- a) negative electrode and oxidation takes place at it .
- b) positive electrode and oxidation takes place at it .
- c) positive electrode and reduction takes place at it
- d) negative electrode and reduction takes place at it .

22- If $K_c < 1$, then

- a) the backward reaction is predominant
- b) the reaction is complete and spontaneous
- c) concentration of products < concentration of reactants
- d) a , c are correct

23- Primary cells are cells .

- a) Galvanic , spontaneous , irreversible
- b) Galvanic , spontaneous , reversible
- c) Electrolytic, irreversible
- d) Electrolytic , easy to be charged

24- The solution of Hydrogen chloride gas

- a) contains ions & lights a lamp connected to two electrodes in its solution
- b) doesn't contains ions & doesn't light a lamp connected to two electrodes in its solution
- c) the bond between the atoms of the gas in the solution is ionic
- d) a , c are correct

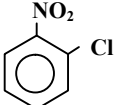
25- In the reaction : $\text{Cu} + 2 \text{Ag}^+ \longrightarrow \text{Cu}^{+2} + 2\text{Ag}$

The oxidizing agent is :

- a) Cu
- b) Ag^+
- c) Cu^{2+}
- d) Ag

26- Pure acetic acid solution dissolved in water

- a) Contains ions and lights a lamp connected to two electrodes in its solution
- b) Doesn't contain ions and doesn't light a lamp connected to two electrodes in its solution
- c) contains ions and their number decreases by dilution
- d) a, c are correct

27-  is formed from

- a) Nitration of chloro benzene
- b) Alkylation of nitro benzene
- c) Nitration of alkyl benzene
- d) Chlorination of nitro benzene

39- When 22.4 L of O_2 react with 70 L of H_2 completely at S.T.P to form water vapour , then the remaining hydrogen is

- a) 47.6 L b) 23.8 L c) 50.4 L d) 25.4 L

40- Unsaturated hydrocarbons with the general formula C_nH_{2n} are

- a) Acetylenes b) Parafins c) Cyclic alkanes d) Olefins

41- The conc. of NaOH solution on dissolving 40 g in 1 L of water is

- a) $\frac{1}{4}$ molar b) $\frac{1}{2}$ molar c) 1 molar d) 2 molar

[Na =23 , O = 16 , H= 1]

42- The chemical equilibrium is affected by the following except

- a) Pressuse b) Catalyst c) Temperature d) Concentration

43- At S.T.P the amount of O_2 formed from the break down of 36 g of H_2O is

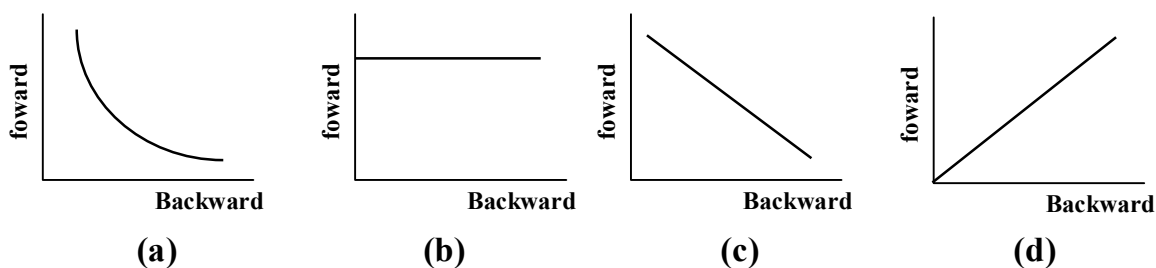
.....

- a) 22.4 L b) 44.8 L c) 11.2 L d) 5.2 L

44- Ionic equilibrium rises in weak electrolytes between

- a) Reactants and products molecules
b) Reactants moleaules and product ions
c) Reactants ions and product molecules
d) Products ions and reactants ions

45- On adding a catalyst : $N_2 + 3H_2 \rightleftharpoons 2NH_3$, shows the relation between the rates of forward and backward reactions .



46- 300 moles of acetic acid contains carbon atoms.

- a) 600 Avogadro b) 450 Avogadro
c) 300 Avogadro d) 150 Avogadro

47- The resultant of dividing the volume of gas at (S.T.P) and the number of moles equates

- a) 22.4 b) 273 c) 6.02×10^{23} d) 2.24

48- The no. of atoms in one mole of phosphorous vapour is

- a) 4 atoms b) 2 x Avogadro c) 4 x Avogadro d) Avogadro

58- contains an amine and an ester group .



59- Esterification reactions are similar to Neutralization in

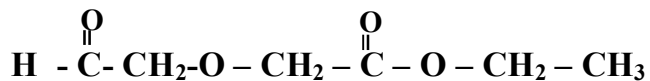
a) speed of reaction

b) formation of ionic salts

c) formation of water

d) formation of esters

60- The functional groups in



are

a) Aldehyde & ketone

b) carboxyl , aldehyde & ether

c) ester, ether & ketone

d) Aldehyde , ether & ester

61- The name of $\text{C}_2\text{H}_5\text{-OCOCH}_3$ according to IUPAC is

a) methyl propanoate

b) ethyl acetate

c) ethyl ethanoate

d) methyl butanoate

LAST LOOK**MODEL ANSWER OF No. 1**

1- d) Phenol	25-b) Ag^+	45-d) graph
2- a) 2	26- a) Contains ions and lights a lamp connected to two electrodes in its solution	46-a) 600 Avogadro
3- a) decreases	27-a) Nitration of chloro benzene	47-a) 22.4
4- c) substitution	28-b) equivalent mass	48-c) 4 x Avogadro
5- a) 12	29-b) Mehtanol	49-d) a,b are correct
6- c) 3.2 moles	30-c) Ethanoic acid	50- d) No. of molecules
7- b) 3	31-c) All the previous	51-a) 0.04
8- c) $\frac{1}{3}$ moles	32-d) Al the previous	52-c) Methyl benzoate
9- d) Manganese dioxide	33-c) tertiary alcohol	53-b) $[\text{Ba}^{+2}]^3 [\text{Po}_4^{-3}]^2$
10- c) (sodium & hydroxide) ions	34-b) Ammonium chloride	54- a) ionization degree of
11- c) Guldberg & waege	35-c) Bakelite	55-d) $[\text{OH}^-] [\text{H}^+]$ increases
12- b) red	36-b) Alcohols with carboxylic acids	56-d) $[\text{H}_3\text{O}^+]$ increases, $[\text{OH}^-]$ doesn't change
13- a) 1	37-b) ethanol	57-d) graph
14- d) ethanol	38-b) Equivalent mass	58-a) $\text{H}_2\text{N} - \text{CH}_2\text{COOCH}_3$
15- b) Formaldehyde & phenol	39-d) 25.4 L	59-c) formation of water
16- b) D.D.T	40-d) Olefins	60-d) Aldehyde, ether & ester
17- a) graph	41-c) 1	61- c) ethyl ethanoate
18- d) closing the container	42-b) Catalyst	
19- b) 2x Avogadro	43-a) 22.4 L	
20- c) 12.04×10^{23}	44- b) Reactants moleaules and product, ions	
21- b) + ve and oxidation takes place at it		
22- d) a, c are correct		
23- a) Galvanic, spontaneous, irreversible		
24-b) doesn't contain ions & doesn't light a lamp connected to two electrodes in its solution		