1

a. methyl orange is used as a indicator beacouse thration is between strong acid and weak basic salt.

b. Naz Co3 + Hz Sou -> Naz So4 + Hz 6 + Co2

1069 of NosCo3 reach with 589 of H2804
3389 of NosCo3 reach with 98, 8.39 of

H2804

=> 4.9 8 08 H2804

Uom

for Hoson

we know,

W= ?

W= NEU

N= 0.1 N

= OIXNOX ON

&= Lig

: 1.96 8

J = C. A J

conflow.

CA.J-1.86) 5.84 2 of Hosson 68

# Rate law Equation for this, argue reaction.

The reaction whose rate depend on the Kirst Power of Concentration of reactant is called threat order reaction.

Consider a Jeneral first auger reaction

A 1/ Product

At time

a woir.

0 mo17-1

t=t (a-n) mol d-1

si morri,

WN886

a= Initial con of reactant DE amount of beognot former after thmet.

kate law ear is.

R= K, [A]2

-9[8] = KIENI

wher, W = hate Constant for least order ex

 $\frac{-d(\alpha-n)}{dt} = 1/2, (\alpha-n)$ 

 $\frac{-da}{dt} + \frac{dn}{dt} = (\kappa, (a-n))$ 

 $\frac{dt}{dx} = 1/(\alpha - x) - - 0$ 

This ear is differential rate law equation for jus, ougers exu

or areand wa one der

<u>dn</u> = **0** K, dt

on friegrating

 $\int \frac{d^2x}{dx} = \int R' \, dR$ 

-Un(a-m) = Kit + I LI = Integran ~

when t=0, then x=0

> I = -Una

Puttong I = - Ina In (11)

100-10(a-x) = 1/1t

10 (a-8) = 11, F

K1 = + (a-8)

 $K_1 = \frac{5.303}{4} \log \left( \frac{a}{a} - v \right)$ 

11/2 Soil

Gluen

T118: 3 WE

borkore pe si us of

= 15 3x01 81 03 reaction = (100x 83 3)01 81

10 (2) 0 mm )

10 (2) 0 mm = (2) 6/2 mm

10 (2) 0 mm

10

2 a Hess law of summation state that the enthalpy of a reaction is some weather the reaction is complet in single step or in multiple steps.

b. So10

aluen

DH of Composition of CEHCON? (AHM)

DH of Composition of CO2 = -288 Mmori

(6+1e +1920s ----> 600s + 3 H20

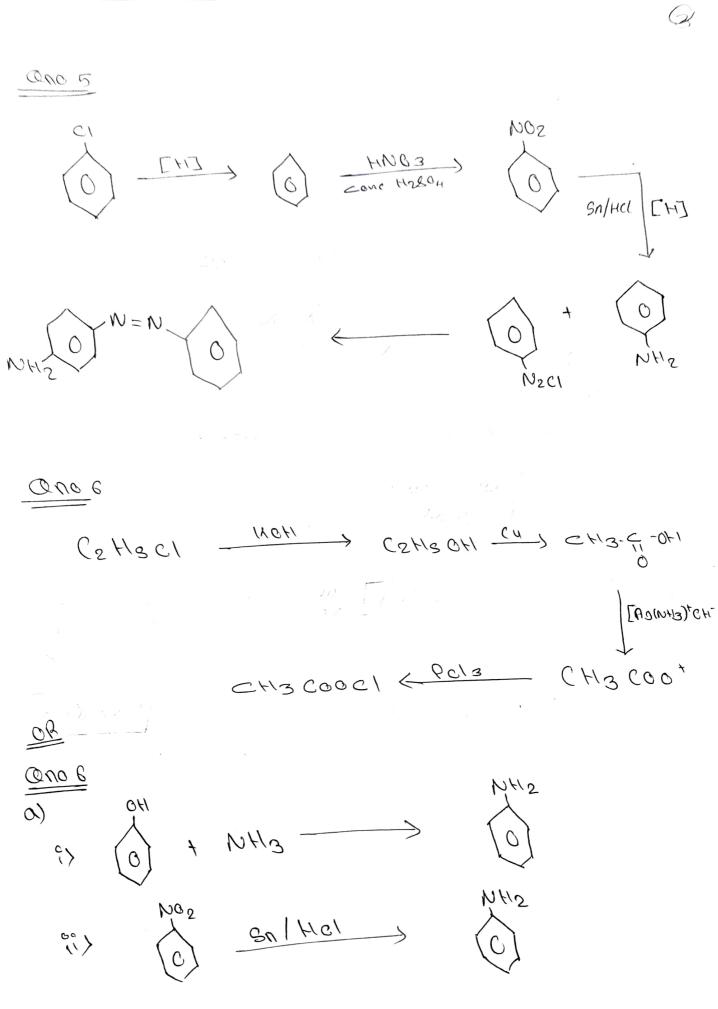
ΔHnet = = [6x (-285) + 3x (-398)]-[5510]

= -2950

- a Ans Transistion elements are also called

  d-block elements beacause their valance
  electron are in d-orbitals
- b And These elements show variable oxidation state beacause their valance electron are in two different orbital, in-17d and ns. The energy level of between these two orbital is very less so both energy level can used for bond formation.

C ans



	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
<u>b</u>	
	In occumatic amines the-WHS group 68
arr	signed light for
	siched with the - COH3 (Phenyl) Stoup
ac	vien les au electron-mingramine group es
20	se posse There love allphatic amines are
$\omega$	see posto then aromatic amines are
	The men acomptic omines
<u>_</u>	<b>6</b>
	$NH^{\delta}$
	NHO NEN
<u></u>	flow sheet diagram of
0>	Portland Coment production
	- (: 1/5.5
6	rock - Suarring how Crushing -
	***
	reconnected Kilu Homogenisation Corinding
16	Reobeccess Frigure Homoden/saylou Cusingina
1	
	cllnker
	Storing   Grafinding   Portland   Packing
Q	storing   Coment   Consider   Consider
•	
	Swipmen!
	Its: You sheet goodean of fortland Cement
	- Sellie Ut

7 Il be wounfoctured pa Suguesting the wixtone of cas with Olher van materials Kine gypsom calcareous and algitacous to a Pewser

- =) Il is more expensive than PPC
- -> Kess demoble in core. ssfue weather
- -> 11 has shoter setting -> 11 has langer setting time than PPC
- -> 11 19 1858 registance egainest alleals thine, entorfue for suprate for
- Il has Higher Strengly then PPC for Postfal Stage

PPC -> The vaniant of OPC Paccoland malexial three fly ask voiconic ash are added to OPC 10 John PPC.

B

- -> It is more cheater than 06C
- -> more grapie or otherine meather
- If we than opc
- -) It is more resistance obojust ancold like enlowing for , Sulphate fon.
- > 11 has better Strength En long term.



@ 00 g	de	500	<u>-</u>	
	(	nsolin		
	" N	140DF1 -	·	nattor
	J. O	omulo	7 9	(v)
		1089	<u> </u>	$(\omega)$
	9	H	\ 7	

Since MOICH completely lower servollon cf [CH-] ion will be some of the Initial con of NOOH.

i-e M = 0.01 M

Normally = VOIN

= 6.49 . O.H of NOOH should be gisoine in 14 of Solution to prepare solution having PH 12

```
ga, Gluen
   Ca -> cutt + 2e Eocuticu = + 0.34 V
     A
   ( A8+ + e - > A9 EO A8+1A9 = +0.80 V
                      (00)
") cell notation:
      calcutin/ Agtin/ Ag
ii) cell potential at 28°c and I atm
  Ecell = Sap of cathode - Sap of anode
        = E0 A81/A9 - E0 out/cu
        = 0.80 V- 0.34 V
         = O.MEV
 (iii)
(not some) DGO = -07 Egen
              = - (5 wore) x ( DE 300 D C wor.) x O. MEN
  - - 88780 C
   V= -88780)
          = -88.78 W
     .. flee evered chause is -88.38M
   No, beacause copper's more reaching than
  sliver thus It replace sliver and lorned
  Product (As)
```

Cu212AgNO3 -> Cu(NO3)2 + 2Ag

eaviousen moss = 
$$\frac{m}{m}$$

In alrealine medium

(1) Those Solution whose concentration is known by withing certain amount of weight in certain boune.

Essential characteristic for Palmory Standard solution are:

Composition on storing.

11/ 14 Should be non toxic

CH3-G-H fellow foot 1 &- 600, + 6050 7 Cusent OH (brick Red) R-C- R lelling test > no Reaction. 100 C 44180 A) CH3-CH2-CH2-CHO B) CH3-C-CH2-CH3 C) CH3 - CH - CHO +684 () - CH3 - CH3 Dive 6090form CH3 - C - CH2 - CH3 - 78 CH ]3 CH3-CH2-C-CNO

(620)

CH3-CH2-C1 GO HOH ) CH3-6H5-GH (CANyl Chlonide) (elhanolic acld) @ Permasy alchal with molecular wt MG 13 ethanol CH3-CH2-CH @ CH3-CH5-OH TE ) CHIJIH HCOONO (1) CH3-CH5-OH + OH-C-CH3 (ONC. H/5-801) (5HB-0-6 - CH3 (a) CH3-CH2-OH + OH-CH2-CH3 - cons. Hospen CSHB-0- CSHB @ gluen alchol can be distinguish from Werronol pa 1090 foru 1681 CH3-CH2-CH NOCH LICOON (Reliam bot) no ma CH3-0H (mernanai)



Secondary armain corar 1883.

Secondary armain corar 1883.

Secondary armain corar 1883.

Secondary armain corar 1883.

R-CH20-OH PH/I2) R-CH20-THORDS R-CH30-1002

[H1002]

W-CH1

&- CH-OH PL 122 R-CH -I MORES R CH2-NOS

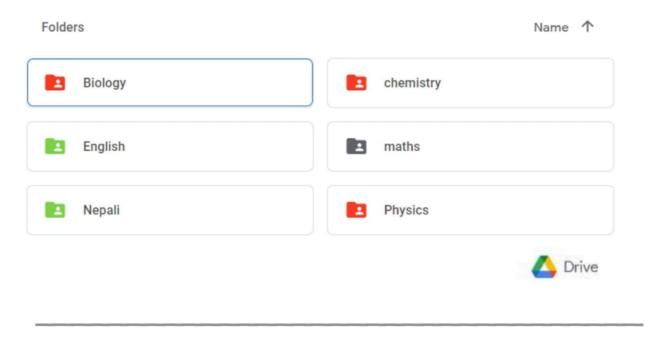
 $\beta - \zeta - OH \xrightarrow{Bu|JS} \beta - \zeta - I \xrightarrow{BDOS} \beta - \zeta - DOS$   $\beta = 0$   $\beta = 0$ 

Color 1858 THOM UC LYU

# Bipin Khatri

(Bipo)

# Class 12 complete notes and paper collection.



## Feedbacks:

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