

Co-ordination number, colour, magnetic properties and shapes. IUPAC Nomenclature of mono-nuclear co-ordination compounds, Bonding, Isomerism, Importance of co-ordination compounds (In qualitative analysis, extraction of metals and Biological systems), Organo metallic compounds.

Unit-11 gSyks , YdHl rFkk gSyks jhU|

gSyks YdHl & ukedj .k] C-X cU/k dh i dfr] Hkkfrod , oaj l k; fud xqk] i frLFkki u fØ; kvka dh fØ; kfof/kA
gSyks jhU| & ukedj .k] C-X cU/k dh i dfr] i frLFkki u fØ; k, arFkk , dy i frLFkki u ; kfxdk a e gSykstuka dk nØ'kd i HkkOA MkbDyks k VkbDyks rFkk VSxDyks eFku] v k; kMkQke] Yhvku] DDT, rFkk BHC ds i z kx l s i ; kfoj .kh; i HkkOA

Halo Alkanes— Nature of C-X bond, physical and chemical properties, mechanism of substitution reactions.

Haloarenes— Nomenclature, Nature of C-X bond, substitution reactions and directive influence of halogen for mono substituted compounds only. environmental effects of dichloromethane, tri chlorine methane & Tetra Chloromethane, Iodoform, Freons, DDT, BHC.

bdkbZ&12 , Ydkgy fQuky rFkk bFkj , Ydkgy & ukedj .k] Hkked i }rh; d , oarrh; d vYdkgy dh i gpk] fu yaj .k dh fØ; kfof/kA fQuky & ukedj .k] vEyl; kdk dk dkj .k] byDVksfQfyd i frLFkki u fØ; k, a bFkj & ukedj .k

Alcohols, Phenols and Ether's

1. Nomenclature of Alcohols, distinction among Primary, Secondary and Tertiary Alcohols, mechanism of dehydration of Alcohols.
2. Nomenclature of phenols and reason for its Acedic nature, electrophillic substitution reactors.
3. Nomenclature of Ethers.

bdkbZ&13 , YMhgkbM~ dhVkbI rFkk dkckFDI fyd vEy
vYMhgkbM~rFkk dhVkbI & dkckFDI l e g dh i dfr vYMhgkbM~ e g vYQk gkbMks t u dh fØ; k'khyrk] U; fDyvksfQfyd ; kx'khy fØ; kvka dh fØ; kfof/kA dkckFDI fyd vEy & ukedj .k] vEyl; i dfr dk dkj .k]

Aldehydes and Ketones— Nature of -COOH group, reactivity of α -H atom in Aldehydes. Mechanism of Nucleophilic Addition reactions.

Carboxylic Acids- Nomenclature, Reason for Acidic nature.

bdkbz&14 ukbVks tu ; Dr dkcfud ; kfxd
ukbVks ; kfxd & i dklj] egRoi wkl jkl k; fud fØ; k, a
vehU & oxhdj .k] ukedj .k] I jruk] i Fkfed f}rh; d rFkk rrh; d vehuksdh i gpkA

I kbukbM rFkk vkbI ks I kbukbM & jkl k; fud vfhkfØ; k, a
Mk; ktkfu; e yo.k & dkcfud I ayk.k e budk egRoA

Organic compounds containing Nitrogen – (Nitro Compounds)

Types, Important chemical properties.

Amines – Classification, Nomenclature, Structure, distinction of primary, secondary and tertiary Amines.

Cynides and Iso-cynides - Important chemical reactions

Diazonium salts - Importance in Organic syntheses .

bdkbz&15 ck; ks eksyhD; YI ½t b v.kk
dkckgkbM ½ & eksuks I SdVkbM rFkk yDkst] YDVkst ½
vksyhxks I SdVkbM & ½ Økst] yDVkst] ekYVkst ½
i ksyh I SdVkbM & ½ Vkp] I y; gykst ½ egroA
i ksyh & vYQk] eksvEy] vko' ; d vehuksvEy] i SVkbM cU/k] i kyh i SVkbM]
i ksyh & d vehuksdh; d] rFkk oxhdj. k; fud uke , oal I rFkk oxhdj .k
U; fDybd vEy & DNA rFkk RNA

bdkb&16 njud thou e j l k; u & vksf/k; ka e j l k; u & nnz fuokjd] i zkrd]
i frjksh] jksk. kpk' kh] thok. kq uk' kh] mojkjkskh nok, i frt sod] vEyrkjkskh] , UVh
fgLvekbU A
I kcp rFkk viektB & vrj] fØ; kfot/k] dhV i frd"khA

Chemistry in Daily life –

Chemicals in medicines - Analgesics, Tranquillizers, Antiseptics, disinfectants, Anti microbials, Antifertility drugs, Anitibiotics, Antacids and Anti Histamines. Soap and Detergents- Difference, cleanging action, insect repellents.



Dykj kQkez



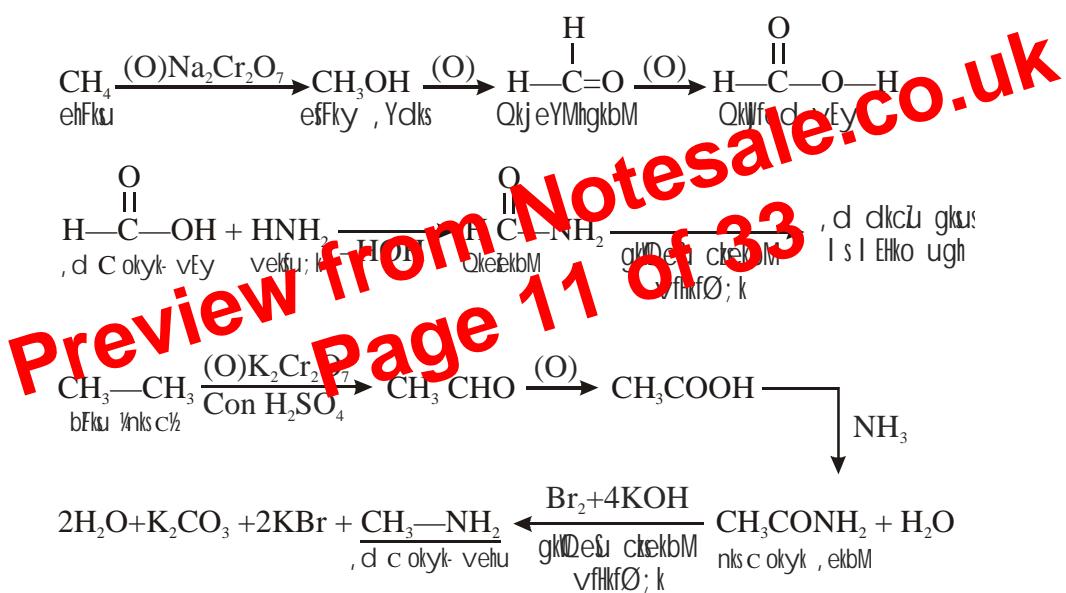
Vk; kMlkQkez



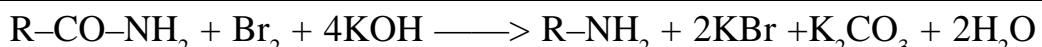
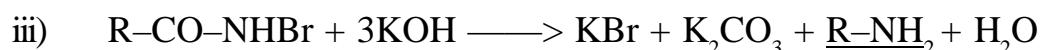
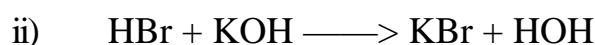
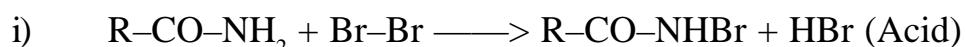
gSykQkez

egRoiwkz ifjorzu ykus gsrq ; fDr; kW

1. , d dkcz okys, Ydu l svYdkgy] vYMhgkbM] dkczDI fyd] vEy] veju vlfn cukusgrqfuEu rduhd vi ukbz tk l drh gA



gkDeu ckekbM vflkfO; k ds vi ukus l scuuokys; kfxd ei, d dkcz dh deh gks tkrh gsvr%tgkMh > CO l en dks gVuk gks; g fO; k djkbz tk l dxhA bl s inka eabl i dkj n'kkz k tkuk Nk=kadks crk; k tk;



vkn'kz mRrj

itu-1

1½	1½	dkbz nkšk ugh
1½	8	
1½	feBkl i šk djusokyk i nkFkl	
1½	foVlfeu D	
1½	nquk	

1½	1½	vfØLVyh;
1½	of)	
1½	xš dk nø eš	
1½	'kū;	
1½	i dhžku	

1½	1½	ty eary
1½	dkškbMh	foy; u
1½	vk;	ju
1½	fejcu	dk ry
1½	nqø/k;	Dř ok"i'khy nø
1½	i tVnø/k	
1½	t=dks kh;	fijkem
1½	, LVšhu	
1½	i kjk	1ejdjh½
1½	gkQeš	ckekbM vflkfØ;k

itu 5

mRrj & v) zvk; plky & og l e; ftl eafØ; kdkjd dh l knrk ml dh i kjfEhk
 l knrk dh vk/kh jg tkrh gsvFkok og l e; ftl eadkbzfØ; k v) zvkzgksh gsmI sbl
 fØ; k dk v) zvk; plky dgrsgA bl st½ l sinf'kř djrsgrA i Eke dkfV dsfy, bl dk
 ek=d feuV gkšk gA

i Eke dkfV vflkfØ; k ds fy, l #

i Eke dkfV vflkfØ; k ds fy; s l ekdfyr nj l ehadj.k fuEu gkšk gA

vflkfØ; k nj $\frac{3}{4}$ fØ; kdkjd rFkk fØ; kQy dh I klnrk ea i fjořu
I e; vflrjky
bdkbz & eks fyVj⁻¹ I s. M⁻¹

vflkfØ; k dh nj dks i Hkkfor djus okys dkjd &

1- vflkdkjd dk I klnz k& vflkdkjd dk I kln.k c<kus i j vflkfØ; k dh nj c<+tkrh gSD; kfd vflkfØ; k dh nj vflkdkjd dsI fØ; nØ; eku dsI ekuqkrh gA I klnz k c<kus i j vflkdkjd v.kvka dh I ; k c<+tkrh gSft I I si Hkkoh VDDjkadh I ; k eao) gks tkrh gA

2- vflkfØ; k dk rki & I kekJ; vflkfØ; kvkaearki c<kus I svflkfØ; k dh nj eao) gks tkrh gS D; kfd rki c<kus I sv.kvka dh xfpt Åtkz dk eku c<+tkrk gA iz kska }kjk ns[kk x; k gSfd ifr 10 rki of) I svflkfØ; k dh nj nksI srhu xph rd gks tkrh gA

3- mRijd dh mi fLFkfr & mRijd dh mi fLFkfr I sI fØ; Åtkz dk eku i fjořz gks tkrk gA ft I I svflkfØ; k dh nj i fjořz gks tkrk gSft I I svflkfØ; k dh nj i fjořz gks tkrh gA /kukRed mRijd vflkfØ; k dh nj dks c<+nrs gftcfdu .kkRed mRijd vflkfØ; k nj eao) gks tkrh gA

4- nkc& xS h; vflkfØ; kvkaea nkc c<kus I svflkfØ; k dh nj c<+tkrh gA nkc c<kus I svflkdkjd v.kq i kl & i kl vk tkrs gS i Hkkoh VDDjkadh I ; k c<+tkrh gA ft I I svflkfØ; k nj eao) gks tkrh gA

101 ds vykok i "B {ksQy "Mly [kk tk I drkgS/

Preview from Notesale.co.uk
Page 32 of 33

ngyh Åtkz & I fØ; r v.kqds i kl tks I EiwkÅtkz gks gSml sngyh Åtkz dgrsgA ngyh Åtkz; Dr v.kq rjUr gh mRikn I dly vks fQj vi?kfVr gkdj mRikn v.kqeacny tkrk gA

ngyh Åtkz $\frac{3}{4}$ v.kq dh fuEure Åtkz + I fØ; .k Åtkz I fØ; .k Åtkz & og Åtkz tks v.kq dks I fØ; djusdsfy, vko'; d gks gS I fØ; .k Åtkz i kl v.kq Åtkz vojksk dks i j dj mRikn I dly cukrk gA

I fØ; .k Åtkz = ngyh Åtkz & v.kq dh fuEure Åtkz
I fØ; .k Åtkz vks ngyh Åtkzea i ck & I fØ; .k Åtkz vks ngyh Åtkzea ijLij fudV dk I ck gkrk gSv.kq Åtkz xg.k dj I fØ; .k Åtkz i kl dj yrk gS tks 'kh?kz gh ngyh Åtkzeacny tkrh gA ngyh Åtkz; Dr v.kq mRikn eacny tkrk gA vr%
I fØ; .k Åtkz = ngyh Åtkz & v.kq dh fuEure Åtkz

ngyh Åtkz = I fØ; .k Åtkz + v.kq dh fuEure Åtkz