Day & Date of the Examination : _SATURDA उत्तर देने का माध्यम Medium of answering the paper : _ 5N4LISE	
प्रश्न पत्र के ऊपर लिखे कोंड को दशर्पि : Write code No. as written on the top of the question paper :	Set Number  ② ③ ④
अतिरिक्त उत्तर—पुरितका (ऑ) की संख्या No . of supplementary answer -book(s) used	Nůl
वेंचमार्क विकलांग व्यक्ति हाँ / ना Person with Benchmark Disabilities Yes / N	110
विकलांगता का कोड (प्रवेश पत्र के अनुसार) Code of Disabilities (as given on Admit Gard)	-
क्या लेखन – लिपिक उपलब्ध करवाया गन्धा : हाँ / नर्ह Whether writer provided : Yes / No	NO
मंडि दृष्टिहीन हैं तो उपयोग में लाए गये सोफडवेयर का नाम : f Visually challenged, name of software used :	
्र एक खाने में एक अक्षर लिखें। नाम के प्रत्येक भाग के बीच एक खाना। म 24 अक्षरों से अधिक हैं, तो केवल नाम के प्रथम 24 अक्षर ही लिखें। ach letter be written in one box and one box be left blant	c between each part of the
ime. In case Candidate's Name exceeds 24 letters, write fi	

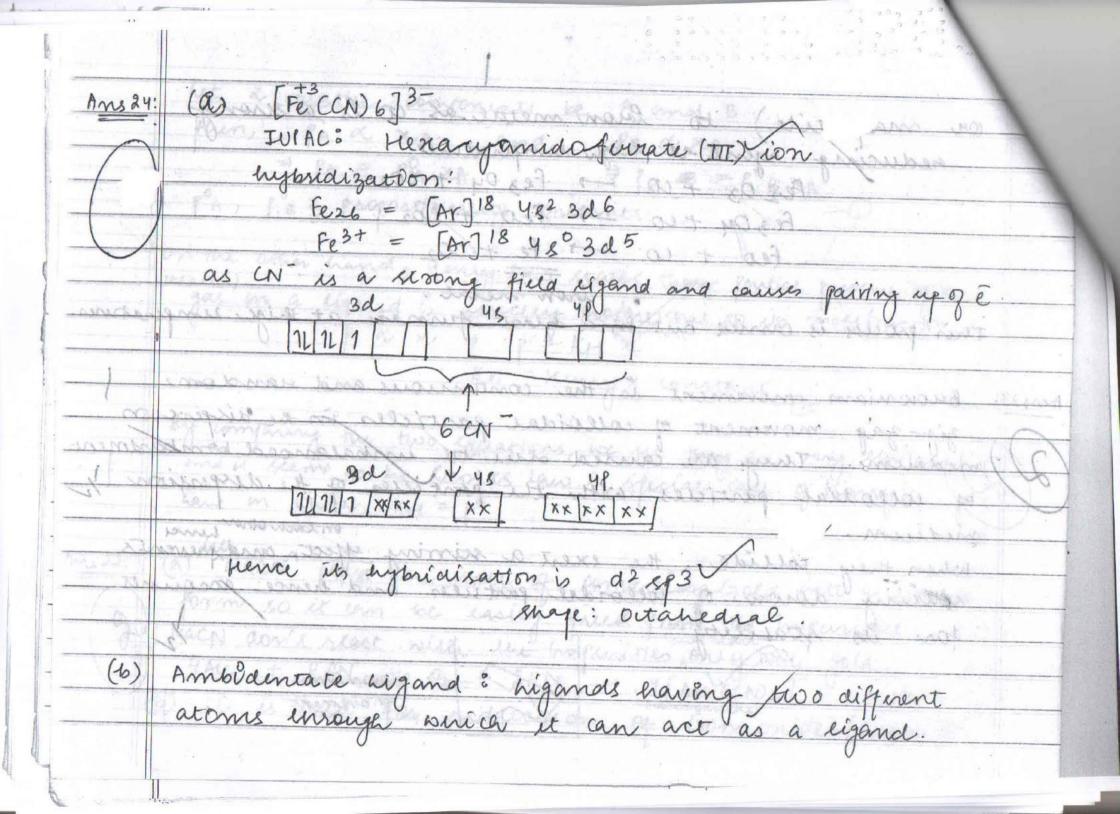
SECTION-A Halogens have outer shell configuration ns2 mp and it is just Short of one election to attain a noble gas configuration. The electron gain entrally is the energy exclassed thenc negacive) when one election is added readily accept on electron to a large amount of energy and hence have maximum negacive election gain enthalpy in a period. Fluorine shows anomalous behaviour due to a number of Ama: reasons : very small size (smallese size in the groups) Xx40= absence of d-orbital and hence can't expand its octel MB maximum electronegativity in periodic how bond dissociation inergy of HI> HBY 7 HCl V HF. This trend is followed d

Ane): to enduced Imple moy Ang8: 2.303 log Ro7: 1st order [R] 2.303 Ams 9: Xx40= Ans 10: NO Aus II; Ans 12: (c) Ams13: CH3 NHS , TO CH LOWER C all Marthon:

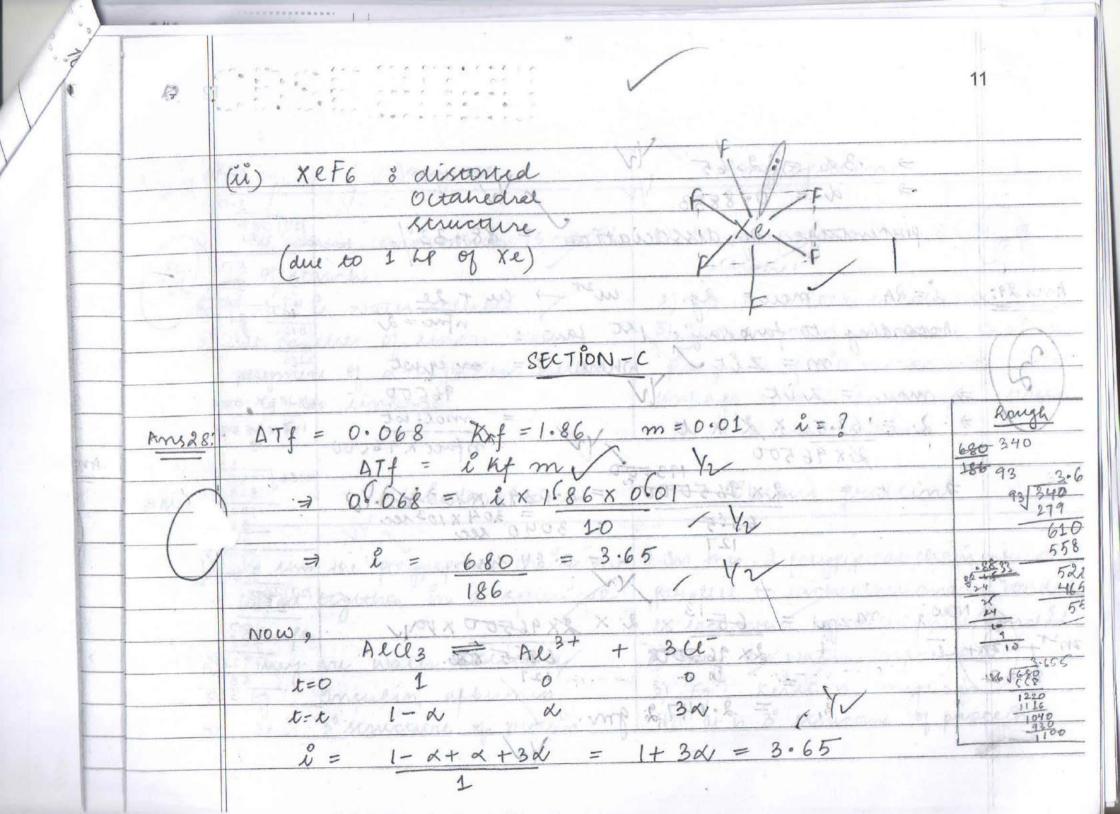
Let 2 volative components be A then, for a na po d no => PA = PO XA = PB = PB XB PA, PB: propostlomality constants. D Argenion whoma Region corner on the other hand, Kenry Law states those portice pressure of a (volatile). gas in a liquid & directly proposed mai to its KH = Kenry's constant By comparing the two equations, we see they are very similar and it seems as the Rapets law is special case of Henry's Anne: D NACN plays the role of converlisting Gold into a complex form so it iam be easily freed from the impurities. Nach don't seast with the impunities only with gold 4 Au + 8 CN + 02 + 3 M20 -> 4 [Au CCN)2] + 40H)

1) CD is used for reduction of iron onides (haemetike (46) (D is used for

----160 × 2/16/2/ or magnetite) to buon metal as co is a scrong reducing agent at high temperatures AIV Fez 03 + 00 -> Fez 04 + c02 Fegoy to - Feo troop feo + co - + fe + co2 of the following comment there properly best to the My societies This process is carried out in a beast furnace at high remperatures. Ans23: Buowniam movement is the continuous and evandom zig-zag movement of colloidal particles in the dispersion medium. They are caused due to unbalanced bombardment of collodial particles with the particles of the dispersion medium. when they collide, the exert a stirring effect, and prevents setteing down of colloidal particles and hence accounts for its stapility anterestic and b formale enaugh pura different Ambidentimonard any art as a signal.



naar brook Ams26: Prhalist acids chelating Was surgery -0-CM2-CM2-0-- My Ve BERLINGER 10-0-tm Liginal Welsermy confusion & 00 Acryponitrite: 4,C = CH Ethenenitrile AND IS AMERICA one antimination that got applied PORCHARING BY COMPANY COM : Polyacyconitre that are regilled on maryinal Newson or Orlan Ang27: (2) H2 S2 08: 2011 1000 1000 1000 1000 1000 1000 of munder they have englin concent rations than ond 10=Stane on on of English House San and and the one Enrich LEST CAS DHAN ON / PON Ph Address attoms w sughi penach it came are as a fishau



⇒ 3 d = 2.65
3.0392
, a. (3X) 19 (3X) 19 (3X)
bocording to faraday's 1st law nfac = 2, 127 389
=> may = 2 it Where Z = ma equet 2266 470
2/x 96 500 / 2 mol. wt 127 x 36 000
127 = 3040 304 × 103 sec 10120 9146 1060
2 m
2× 16500 + 6365 800 - 508
= 2.0472 gm.
2 = 1 - x + x = = 1 + 3x1 = 3 - 65

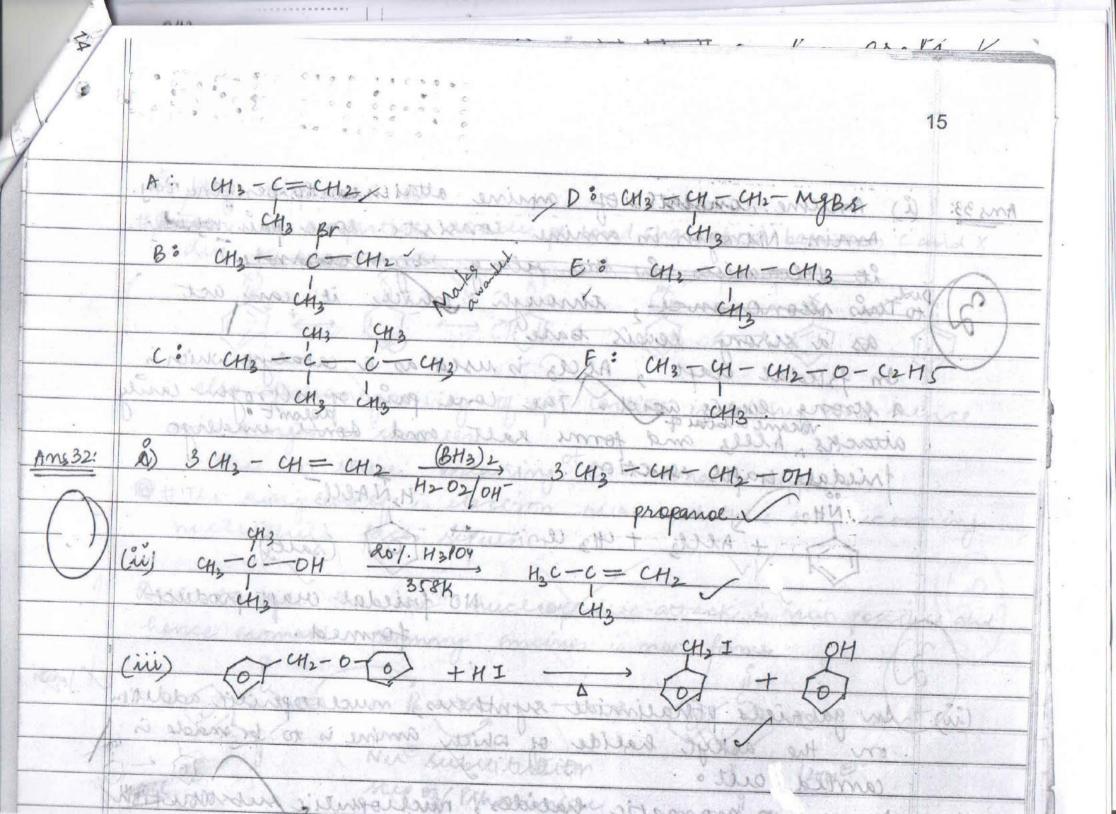
/ (;)		
Ans 30:	Amyeose	Amylopecien (d)
	- ( (John ) Marris )	CH31-224
R	It consis compromises 15-30%	1) It comprises 80-85% of
( )	of starch one was	rassinstanch beneather the
(2)	It is water societe	2) It is water insource
3)	It consists of sinear chain	3) It consists of branched chain
	polymers of x-D glucose with	polymers of as guicox with 4-14
	G-cy linkage	winkage and G-Co winkage betroeen
	of the species is consistended as the	the 2 cinear casins
1	and then form preparation	- dester Binkrassons
(3b)(w)	Globulas Protein	fibrous procein
	HEAD ON VEY JOHN BEET HAVE	c-c-case >1
1)	In this the polypepoide chains are	1) In this, 2 pougeptide chains sun
	willed together in a sprenigal	parallel to each other and and bonded
3	shape Add The	to each other by disregnide conded
1/2)	They are water sourble	2) They are water inspende
3)	Eg: Insulin, albumin	3) Eg: Keratin, myosin
40	V - 12	4) et is 3° servetine of proceen
	CAN TO THE CO	

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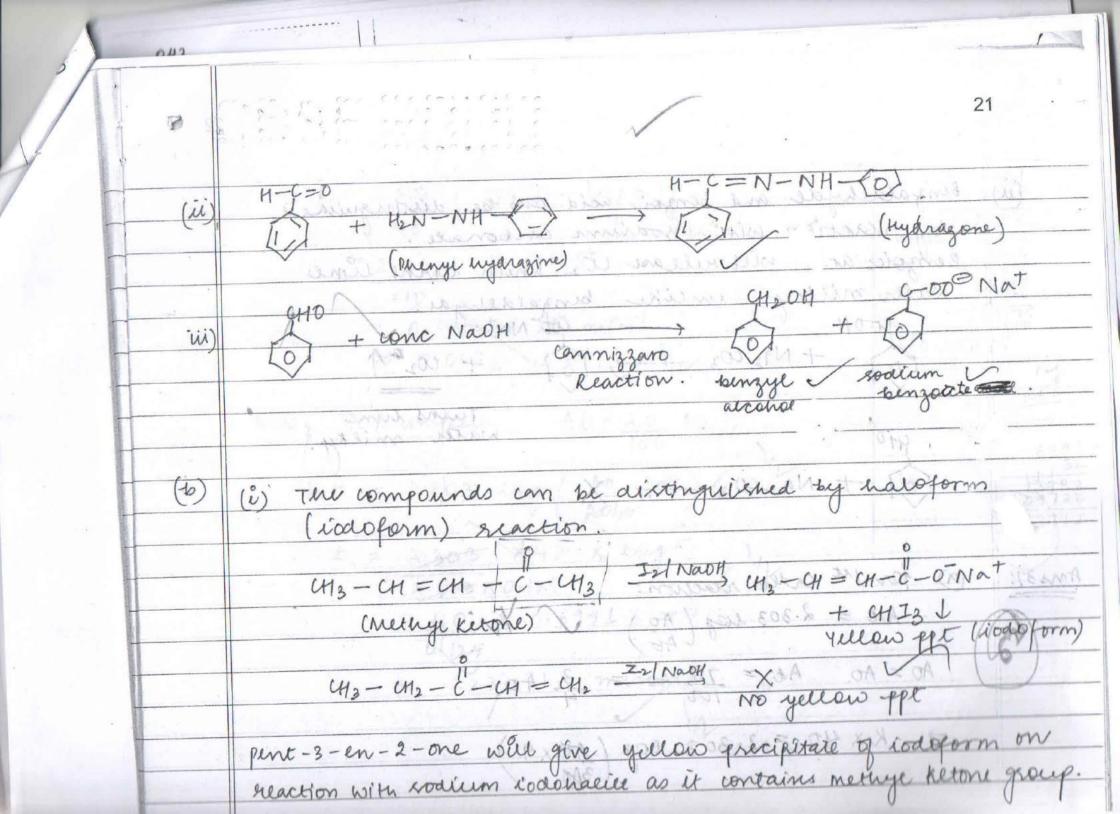
Nucleotide Nucleoride (sugar/Base) When the phosphorous compounds 1) When the nicrogin base are attackned to 5 position pairs are attached with of the sugar moetry which the 1 portion of sugar already has a base attatch hibox sugar or \$02 deory ribore to its 1' position sugar / It polymerises to form poly. -nucleo tides through phospho-- dester linkages and then form polynicalorides. ママンとうひかいすー Mg CH3-CH-CH2-Br alc KOH CH3 CH3-CH- CH2-0-C2 45 (F)



Ams 33: (i) Aniline consists of amine attalied to benzene ring. Amin Moragen in amine consists come pair which to This reconomance, through Janice it can act as a surony levels bare In friedal craft, Acces is used as a catalyst which is attacks Alles and forms salt and don't indergo friedge ways reaction. INH2 HOLD HAVARUS + Alce + 413 Ce MU-C= CHO (Salt) No friedal orașt product formed. In gabriels pthalimide syntheses, nucleoperice addetion on the ackyl halide of which amine is to be made is In case of anomatic halides, nucleophilic

00000000 Amines are basic in nature due to presence of conf pair on nitrogen o anie to innoduction of an ackeye group, the electron depolity on nitrogen increases are to inductive (effect (+I) of alkyle and hence its lone pain can easily attack R->N: NO NO NO NO NH3 H contains no alkyl group C= X = BOAD SO TAILHE of heast pasic. GREATHE hyophobic hyopericic They are siguid nating colloids (1) They are liquid loving colloids i.e. don't interact with solvent much as they interact with solvent They are unstable and jets a) They are stable due to charge and solvation They are made by special (3) They can be formed by just pregnation memoris mining with the dispersion E HOW medium they are starbinised using starbinismy (1) They are used as protective colloids

(Sodium chromate) Naz croy is convenired to sodium dick by peacing it in an acidic medium - Nazcreoz 2 Naz Groy to 2Ht -Potasserm manganate is prepared by pyrulosta ore (mus by fusing it with NOH followed wit by with oridarion by a + 2K2 Mm 09 + 2H20 2 MMO2 + 4 KOH + O2 -OHC-CH2-CH2-OH + CH3CHO an condensation Reaction. CH = CH - CHO (xp imparated froduct,



Benzaldehyde and benzoic acid can be distinguished by reaction with sodium carbonale. Benzoic acid with release co2 which twens lime Nøter milky mlike bingaldeliga. + N92 CO3 -+ 602 1 Turns lime wtulazcojantonia XI mo comogmos vist. (3) icoto como sucablica for 1st order reaction: Ams 37: Marin and the comment of Kit = 2.303 way (Ao) along (Matheye Ke. AO = AO At = 75 AO = 3 AO mo mo 3 m Kx 40 m = 2.30 30 log ( A0 x 40) 200 € - m € - 3000 ARELLE as it contains meture ketors grave.

TO PERMIT Order of the reaction is the sum of powers of the concentrations in molarity of the reactants in the nate haw expression !! They may be not requal to sum of tradametal stochiometric coefficients in paranced menical maction. R= K [A] n [B] y Rate haw engression order = x + ap as = aA example 108 across. 1001 A biomolecular reaction can be made to follow first order kinetics if one of the reactant is taken in large excess, to by which there will be no yest in the nate of neaction by wanging the conceneration of the excess reactant! for y: tydrolysis of ester. 43 WOCH3 + H201 = 47 CH3 WOOH + CH3-OH water is taken is huge amount and hence have no effect on rate of reaction.

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