2022/COORDINATION SECTION

Class-XII

Chemistry(043)

14. (c) polyphytides 15. (b) Both Assertion (A) and Reason (R) are true 5 13. (c) C, - C4 & Unkrage . (C) (b) CH₃NH₂ © 0 (a) $1^{2} < 2^{3} < 3^{3}$ (1) Swarts reaction (d) Zn 1 Zn 4 11 Ag+ 1 Ag (a) campatic pressure (c) ionisation isomorium (c) Assertion (A) is true, but Reason (R) is halse (b) + 3(c) negative Section -A NH-NHZ hostiwe Bet Reason (R) is not 5

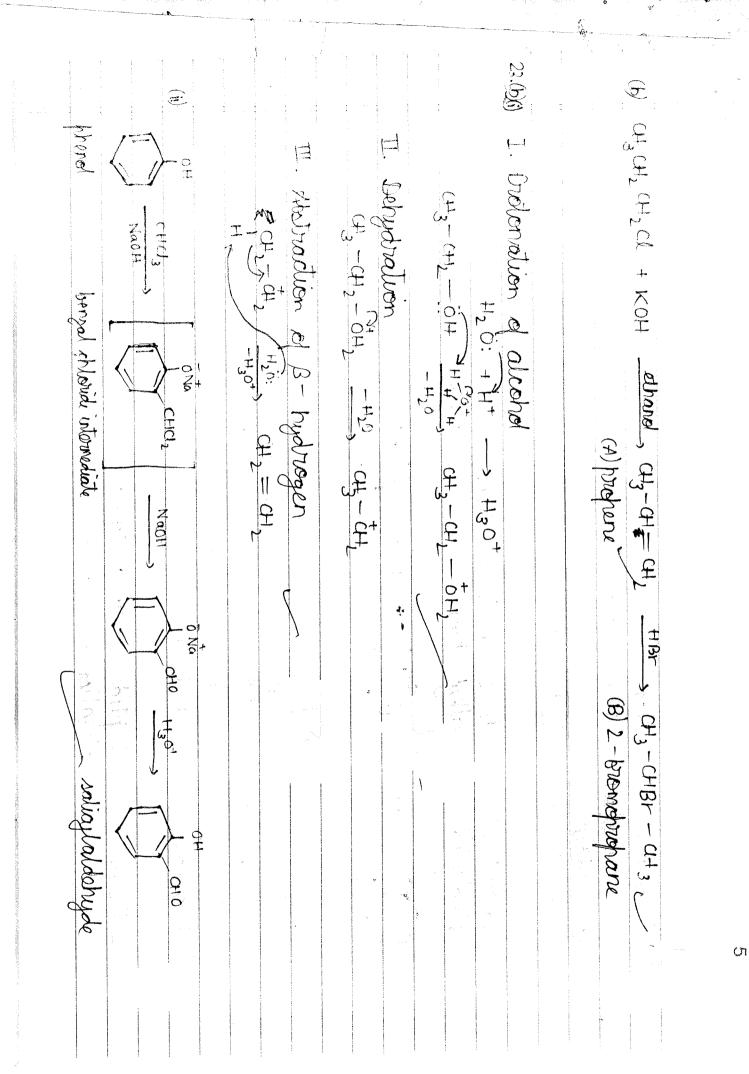
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 $\frac{\partial A}{\partial t} = \frac{\partial (t, t)}{\partial t} + \frac{\partial (t, t)}{\partial t}$

) = 17. (a) Both Assortion (A) and Reason (R) rate True and Reason (R) is the correct Henry's taw states that the solubility of a gas in a liquid is directly proportional to its partial pressure over the liquid surface. Notrenatically P = K_H X P = K_H X I where of the gas in the solution 7: mole praction of the gas in the solution K_H: Henry Law constant a both swertion (A) and Reason (R) or true and Reason (R) is the correct Section-R One opplication of Hunry's taw is seen in carbonated drinks. The cans one readed under high pressure and as room as a can is opened. The pressure dreps. This leads to COL excepting from the explanation of the Assortion (A). w

22. (a) 20.(a) Electrolyte B is strong $cH_3 - cH_3 - cH_3$ trent the graphs, it can be seen that the metal conductivity of useal electrolyte & increases much more reapidy than that of strong electrolyte on dilution. Hence, A must be useal while b 0 H Nm Smª mot PCLS. Stronig 0H3-0H-0H + 6H+ (A) 2- chlore propone ר-כו Je molu $2Gr^{31}$ -> 2Mn²⁺+ 5NO3 + 3H₂O while A is weak $+ 7H_20$ AS CN Hence A must be useal while Bis strong Am (S Mermor) (B) propane - 2- isonitrile $G_{1_3} - G_{1_1} - G_{1_3}$ Weat NC, C Complete Q á

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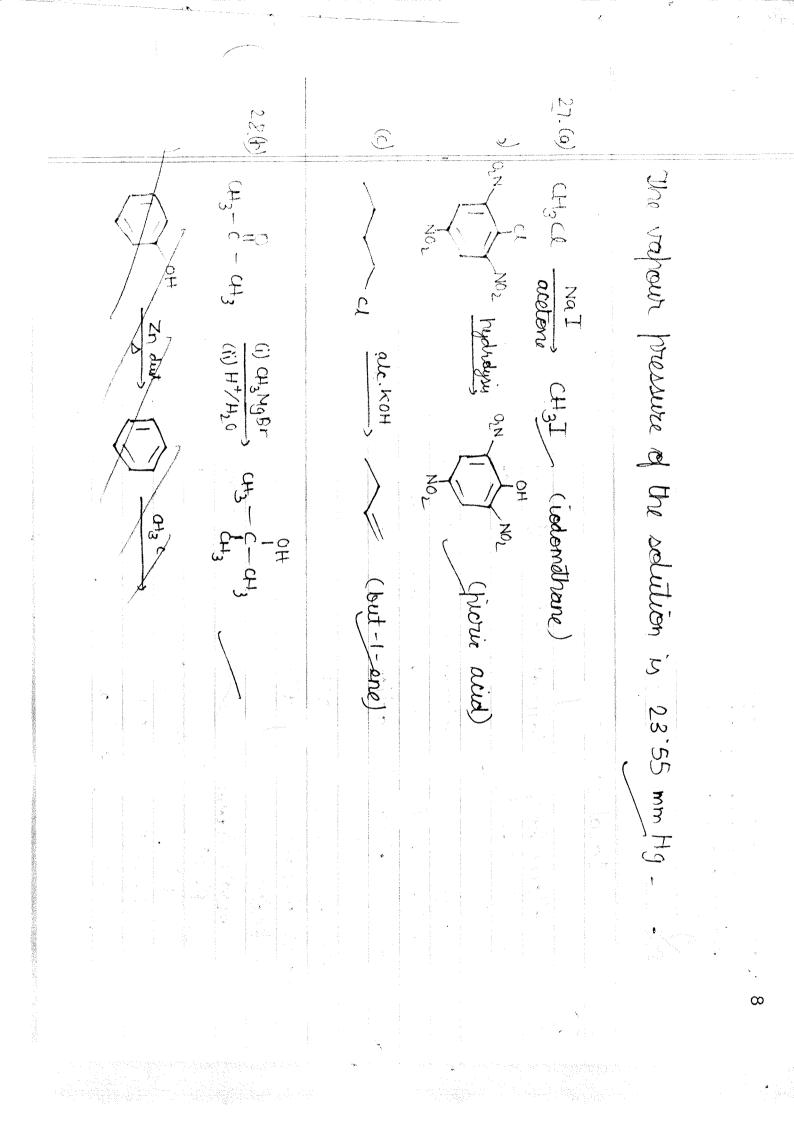


Pritiquenine reaction is a test used to detect 1° anning, that rend institutionalism and ethanetic kort to give usegoindes, that have a pull edges? R-NH2 + CHCL3 + 2 KOH - R-N=C + 3 KCL + 3 H2O Chabuil philability raticles is used to httphare I' anning that have a philability hith and alley tradides. It unreduces an SN2 recalling the second alley tradides. It unreduces an SN2 recalling the decision of philability that have a tradition of the second alley tradides. If unreduces that have a tradition the second alley tradides is the period to have an tradition of the second alley tradides of n-hexane an tradition of the second alley that any the period to have been that is the second alley that the second of the tradition of n-hexane an tradition of the second and the period to have that is the period of an of an of a second to be been alley that is the period of a second to have been alle for the period of the period of the tradition of the tradition of the test of the test of the second of the period of the the test of the the test of the period of the test of test) (25. (a)	S	24.6)
,是你们的你们,你们就是你是我们的你们,你们们的你们,你们们的你们,你们们的你们,你们们就是你们的你们,你们们不是你们的你们,你们们不是你们的你们,你们们不是你们	A peptide or ainide linkag	+ alc, KOH -HI I I NIX R-X HI I I R-X HI I R-NH2 + I HI I R-NH2 + I HI I NNOW that	R-N=C + 3KC(+ 3H20 used to Nulvare 1° anning It involves an SN2 reaction	used to detect 1° aminus, off to give isequander, that

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26.6 Holes of what = $\frac{30}{60} = 0.5 \text{ mol}$ Holes of water = $\frac{240}{18} = 47 \text{ mol}$ 1) It follows Racut's tow at all vie know (1) The solution-solvent interactions are The solute-solvent interactions are Section-C concentrationy. solvent-solvent interactions. identical to the solute - solute and weaker or stronger than the solute-solute RLVP = X south 23.8 - P 23.8 Ideal solution = 7 solute 475 95 Ð J => 95×23.2 -95 P = 23.8 and servent - servent interactions => 95P = 94×23.8 It does not follow Racult's law at all concentration ·: P~ 23.55) $= P = \frac{q4}{4 \times 23.8}$ Non-ideal solution 223 21420 (Journal)



30.(n) (i) B-D-galactore and B-D-glucore (ii) B-D-glucere and R-D-glucore 29.(6) A states not reduce Iehling's solution but shows pointive indeform test. It must be a tetore methy ketone. A therefore must be a 2° alcohol . $q_{3}-q_{1}=q_{4}$ $CH_3 - CH - CH$ propon-2-rel (\mathcal{A}) ΗО NOOH hononide, CH3-CH2-CH2-Br 573 K 2 OI Nat and the second CH3CL proponent 6 ag. Noot o CH₃ Naoh H $H_3 - H_2 - H_3 - OH$ (H3- C-0Na ungalation 0 T \mathbb{C} 1 11.1

(11) (1) le trate of ruadion for zone order constant of k for zone order is not t-1 s	(i) Two factors that affect the rate of read	31.(i) The average rate of a reaction is concentration of the the threation reaction is concentration of the threation reactants Arg. rate $-\frac{\Delta LRI}{\Delta t} = +\frac{\Delta LPI}{\Delta t}$	lecture is made up of p-D-gu	(b) The basic structural difference between that startch is made up of x-D-glucese
s'i reaction is always	reaction are temperature	defined as the decrease in a or the uncrease in the uncrease in the	Koze monoment.	een stouch und cellulose is

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 $\mathcal{S}_{2}(i)$ [rt $\mathcal{Q}_{1}(NH)_{2}$] 33.6%) Jaradaup Tirst low of Electrolysis states that the mass of a substance consumed deposited evolved is directly proportional to the amount of charge passed through the electrolytic $(ii) [(1) Fe_4[Fe(CN)_6]_2]$ (11) The secondary valency of [Co(en)] it is 6. by Norrat Equation $E_{ab} = E_{ab}^{o} = \frac{0.059}{7} \log \left[\frac{Mg^{2+1}}{Gu^{2+1}} \right]$ (2) pertaamminechloridocobalt (111) chloride 2F charge is required for the reduction of I mel Cu²⁺ to Cu 2rclion -t services $(u_i)^+ + 2e^- - y Cu_i$ dram I error

35.(b)(i) (1) indeform test CH3 CO CH2 CH3 CH3 CH2 CH2 CH2 CH3 CH3 CH2 CH2 CH2 CH0 (2) Jollens' test (H3CHO <u>LAG MH32170H</u>, Ag J (silver mitter) - aldehyde (H3COOH <u>ROMH2170H</u>, NO silver mitter) - not aldehyde 11 ų 11 2.71 2.68 V 2.71 - 0.032.71 IN MACH, CHI3 (yellow ppt) is mathyl ketone L₂/NaOH 20.059 0.059 CHI3 1 (09 Dit 10 N,

34.0) Mr: [Ar] 3 25452 (ii) I million motals and their compounds are generally found to be good ratelysts because of their ability to form complexes, and because they can show variable bridation states. In can love all its 3d and 4s electrony to attain stable mobile gas configuration in its +7 state. Elements to the left of Mn do not have 7 valence electrons to love while for elements to the right, the innivation energy becomes too high to love so many electrons CH, COOH ethancyl chloride ethana $\frac{\operatorname{PCh}_{5}}{\operatorname{CH}_{3}} \xrightarrow{\operatorname{COCL}} (A) \xrightarrow{\operatorname{H}_{2}} \frac{\operatorname{H}_{2}}{\operatorname{RN}-\operatorname{Bann}_{4}} \xrightarrow{\operatorname{CH}_{3}} \xrightarrow{\operatorname{CH}_{0}} (A) \xrightarrow{\operatorname{CH}_{3}} \operatorname{CH}_{3} \xrightarrow{\operatorname{CH}_{3}} (A) \xrightarrow{\operatorname{CH}_{3}} \operatorname{CH}_{3} \xrightarrow{\operatorname{CH}_{3}} (A) \xrightarrow{\operatorname{CH}_{3}} \operatorname{CH}_{3} \xrightarrow{\operatorname{CH}_{3}} (A) \xrightarrow{CH}_{3} (A) \xrightarrow{C} (A) \xrightarrow{C}$ C: propan - 2-d D: ethand $L_{1,AH}$, $CH_{1} - CH_{2} - OH_{1}$ $\overline{\omega}$

Z È Zh: [Ar] 3d 10 452 5/6 In has no unhaired electrons hence metallic bonding in 2n in weak. Thus, it has the towest enthaling of atomisation in the 3d veries. Mn²⁺ has a stable half-filled d-subshell configuration Mn³⁺ is an evidising agent. $(r^{2+}: [Ar] 3d^4 \xrightarrow{-e} (r^{3+}: [Ar] 3d^3)$ Mn³⁺: [Ar]3d⁴ + e, Mn⁴; [Ar] 3d⁵ r³⁺ has a stable tig configuration (half-filled orbitals), so (r²⁺ o un and up an aquereus sel as it dispreportionation $2 \text{ and } (u_{1}) \longrightarrow (u_{1}^{1+} (a_{q})^{1} + (u_{1}))$ 8