UNITA CHEMISTR- P525/2 PROPOSES MARKING GUIDE. 0777876396 Stopped MR. OPELE.D. ta) (i) Colligative property; This is the physical properties of Deny is then dilute solution which depends on the number of non-volable try point are plate desolved in a solvent but not on the chantal value of the white. il Depression in freezing point of Lowering of vapour pressure of b) An experiment to determine the relative formula mour of gluciale by boiling point elevation method. - braggin wasn't A Known mass of pure solvent, and is placed in a equired with tube fitted with a side and teaching to a reflux ordensor. Units of temperatione boiling tube is closed by a stopper through which is and be spendispossed a second inner tube, upon at the lower end and filled Expensed with a Beckmann the moneter. and have in a liquid is immused controll pump to prevent super (9) ogical flow heating The pure solvent is then beated untill the Beckmann thermovieter shows a constant temperature and the builing point To of is mornited. A known mass of glucuse, by is then added through the side arm to the solvent! The reculting solution is also heated untill the Beckmann themometer shows a constant temperature and the boiling point of a solution Tib it is also measured. les Should have Treatment of Results Reject Mass of aire solvent = ag units and they must Th= (Tb-Tb) c Marc of Solute (gluwle) = bg het the boiling point elevation constant be Kb e mol- 16 Elevation in botting point 176 = (Tb-Tb) c a grams of pure solvent dissolver by of gloring ionog of solvent duolog (6 x1000) g of reforme

ATE is the elevation in boiling point could by (\$x1000) g of gly Kb will be the elevation in boiling point Could by \$6 ×1000 x Kb relative firmula mass of gliride is from x b. x Kb. Reject: muleurlar mass Since the question wanted RFM Reject; With units. 1(0) Mass of water = Notume & Dencity Assumption; Density of water = 19 cm3 in boiling paint of Mass of water = 250x1 = 250g V 0.25kg of water dissolves 0.009kg of glowse 1000 kgs of water dissolves propor 0.009 kg xof glusse. 1024000 ST'c is the elevation in boiling point caused by 1000x0009/kg of 0.52°c is the elevation in boiling point caused by/1000x0.009x0s 10.25000 X ST we believe and it to have la of glore The Relative tormula mass of gluwe - 1000 x 0.009 x 0.52 0.25 X17 1000 X0:009 X0:52 Repet; Subinhon. D. 25 X17 into a given formula, Oply a line later But DT = The solution - To solvent. principles !! The solution = 100.104°C & Boiling point of solutions) -the final Henco, answer must 0.25 kg of water dissolves 0.00146 kg of sodium chlunde race ament 1000 kg of water chesologi (0: 00 146 ×1000) kg of sochum
0:25 / kg of sochum 0.104°e. is the elevation in boiling point caused by 5.84kg of 0.52°c will be the elevation in boiling point cared by 5.84 x0.52 Relative moleular mass of sochum onborde in water is RAM should not have

chlorde (15) Colon Chiloride cloes not react with water Sensity of water is 19 cm3 Solution of gluce and water is dilute in question is d) The relative molecular moss of sochrum chlunde in water is a half the theoretical R.F.M of socium chloride. This is because sodium chlorate dissociates to form sodium ion hasite and chlorofe ion in water. The number of sodium chlorole sociates is water solution is twice the original number in the pure solute. This elevates the boiling point further but dear asing the relative molecular mass to half the actual value.

an.3 . (a) CH3 ECH2CH3 Na(OH) (Ag) CH3 CCH2CH3. Mechansm NaOH -> Nat(ag) + OH(ag). Stratly SN, mechanism. Hanging arrows Nat + Bay -> Na Boy & Can be ignored. Hanging bonds stop marking here wrong + CH3CH=CH2-H3PO4 > CITCH3 a pollowing produces. H3PO4(a) > H(as) + H2PO4 (es) chemical symbols. of all mores CH3CH=CH2 (CH3)EH revaried to tale H3)2 - H+++ (CH3)2 Cotts COOH + CH3CH2OH HClas) COHS COOCH2CH3 + HCl masice os in Hel HCI(ag) -> Ht(ag) + CI (ag) EMR CONSTANT CONSTANT OFF OFF CONSCIONAL CON THE CONTROLLING CON THE CONTROLLING CONTROLLI ty reversible Cotts Cochacha -Ht -Conscochacha -H20 -Cotts C-OCH2CH3 MH2NH2/Ht MNH2.

Mechanism. Very; Hydriger Shift and stop marking. Enghasize lone pair of electrons 3 (e) · CH3COOCH3 NH3 Alwhol > CH3CQNH2+CH3OH. treept; conc. Ammonia. Mechanism CH3CONH2 QN