STEREOCHEMISTRY AND FUNCTIONAL GROUP

Name: Jatto Shakeerah Quiza Matric No: 19/11501/217. Department ! Madicine & Burgary. COURSE ! CHM102 Assignment. i) Name the functional groups present in each of the following noticeles CH2=CCOH)HCHO " CGH5CHICNH2) COCH3 (") CH2C=CHICH (OM) CHO Answer ct12=cco+1)+1c+10 - @ c+12=c (Double bond choin). a 6 - OH (hydroscylgroup) 6 - C (alkanal) Fi. C6 HBCH (NH2) COCH3 C6HS - Phanyl group with double bonds b - C-R - Alhonores t CH3 C= CH CH (OH) CHO 21. 60 c=c - Alkene (double bondchain) 0 0+1 - Hydroxyl group - Alkanal \$ æ A 0.856g cample of pure (2R, 3R) - tartarliand was 2. diluted to 10 cms with water and placed in a 1.0 dm polarimeter tube. The observed rotation at 20°C was the calculate the operatic rotation of C2R, 3R) - tarticic acid. Answer $\alpha_{\lambda}^{T} = \frac{\alpha}{c.c}$ $C = \pm 1.0^{\circ}$ $C = 0.8569 = 0.08569 \text{ cm}^{-3}$ 6 = 1.0 dm $x_{\lambda} = \frac{+1.0}{0.0866 \times 1.0} = 11.68^{\circ}g^{-1}cm^{3}dm^{-1}$

Draw the possible geometric isomers Cubere possible) for each of the 3 pollowing compaunds ! : Hexa - 2,4 - diene @ 2,3 - Dimethylbut - 2 - ene. Answer 1 3 Heoron - 2, 4- diene CH3 th Cis, trans - Hesca - 2, 1 - diene 1.2 2,3 - Dimethylbut - 2 - ene C = CCtl2 2,3-Dimethyl but-2-ene (NO possible geometric isomers)