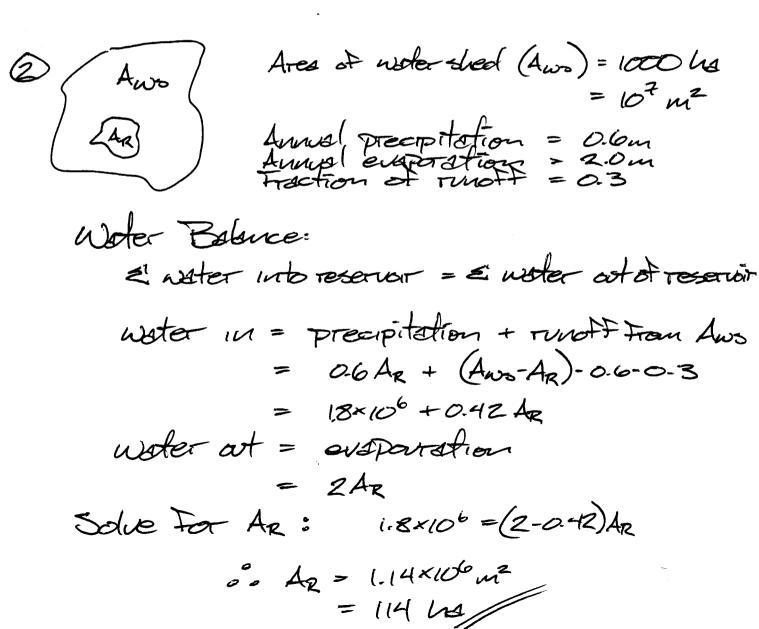
Assonna CIVE 375 ratiler spaces, and a, nit lage, a coffee stop = 200 persons per 40 trailer sper 20 unit idge + utsitos centa Leoparcy - Estimate note- demand Assume Maximum according = 200

Look at Table 1.6 on page 10 in text. There you should come up values of average water consumption for conditions asked in the question. There is no right answer, just make sure however that you answer is logical.



-ontid N

$$Moles _{H_2SON} = \frac{0.95 \text{ kg}}{0.95 \text{ kg}} \frac{|mol|}{10003} = 9.69 \text{ mol}$$

$$Moles _{H_2O} = \frac{0.05 \text{ kg}}{18 \text{ g}} \frac{|mol|}{18 \text{ g}} \frac{|mov|}{\text{ kg}} = 2.78 \text{ mol}$$

$$Moles _{H_2O} = \frac{0.05 \text{ kg}}{18 \text{ g}} \frac{|mov|}{18 \text{ g}} \frac{|mov|}{\text{ kg}} = 2.78 \text{ mol}$$

$$Moles _{H_2O} = 12.47 \text{ mol}$$

$$Volume ot solution = Moles _{H_2ON} + Moles _{H_2O}$$

$$= 12.47 \text{ mol}$$

$$Volume ot solution = \frac{0.95 \text{ kg}}{1.83 \text{ kg}L} + \frac{0.05 \text{ kg}}{1 \text{ mg}L}$$

$$= 0.569 \text{ L} \text{ solution}$$

$$X = \frac{9.69 \text{ mol}}{12.477} = 0.78 \text{ mol} \text{ mol}$$

$$X = \frac{9.67}{12.477} = 0.78 \text{ mol} \text{ mol}$$

$$K = 0.432 \text{ C}_{2}\text{ H}_{2}\text{ OH} \text{ C}_{2}\text{ H}_{2}\text{ M}$$

$$Moles \text{ solution} = 2(12) + 5 + 16 + 1 = 463 \text{ mol}$$

$$Moles \text{ solute} = 0.431 \times 0.29 \text{ kg} = 7.39 \text{ mol}$$

$$moles \text{ solute} = \frac{0.57 \text{ kg}}{163 \text{ kg}} \times 10003 \text{ kg} = 81.67 \text{ mol}$$

$$Moles \text{ solute} = \frac{0.57 \text{ kg}}{183 \text{ kg}} \times 10003 \text{ kg} = 81.67 \text{ mol}$$

$$Moles \text{ solution} = 39.06 \text{ mol}$$

$$M_2 = \frac{7.39}{12} = 7.39 \text{ mol} \text{ mol}$$

$$M_3 = \frac{7.39}{31.06} = 0.19 \text{ mol}$$

(a) Hornality (N) =
$$\frac{eq_{UVIIIII elevites} et solution}{USINVE est solution} [eV/2]$$

Attenne complete dissociation (no soliels remaining)
a) 1.25g H₂SO4 MW = 98 g/mel
H₂SO4 \rightarrow 2H⁺ + SO4²⁻
Z = # of replecedule H⁺ ians
consider 1L of = 2 °V/mel
N = $\frac{1.253}{1L} \frac{|mol|}{28g} \frac{|28g|}{mol} = 0.026 °GV/2$
Follow the same process For b) through d)
b) H₃PO4 \rightarrow 3H⁺ + PO4³⁻ Z = 3 °V/mel
c) Cd(H)2 \rightarrow Ce²⁺ + 2(Ot⁺) Z = 2 °V/mel
d) H₂S \rightarrow 2H⁺ + S²⁺ Z = 2 °V/mel
Super cube $C_{12}H_{22}O_{11}$ (P 2.55 gave × 2 cubes
Volume of coffice is 255 m/2
b) Z cobes (2553) $\frac{|000mg|}{255ml} \frac{|000ml}{2}$
c) MW = 366 g/mel $\sim \frac{2x2.55g}{366} = 0.014 mel$
multiple $M = \frac{2.014}{0.014} mel = 0.546 mel/2$
d) $X = \frac{0.014}{0.014} mel} = 9.8x10^{-3} mel/mel$

(3) a)
$$Bach_{2} \rightarrow Ba^{2+} + 2ci^{-} = z = 2 = y_{inol}$$

 $Ew = \frac{Mw}{z} = \frac{2083y_{inol}}{2 = y_{inol}} = 104 g_{ex}$
Follow the source steps for the remaining parts
b) $Ag_{2}SO_{4} \rightarrow 2Ag_{4}^{+} + SO_{4}^{2-} = z = z$
c) $Af_{2}(SO_{4})_{3} \rightarrow 2Af_{3}^{3+} + 3(SO_{4}^{2}) = z = 6$
d) $K_{2}HPO_{4} \rightarrow 2K^{+} + PO_{4}^{3-} + H^{+}$
i) with respect to $K^{+}_{3} = z = z$
ii) with respect to $R^{+}_{3} = z = 5$
(9) $AgNO_{3} = z = 2 g_{mol} Mw = 170 g_{mol}$
 $Ew = \frac{170}{1} = 170 g_{eq}$
 $0.23 eq_{1}^{2} - 170 g_{eq} = 39.1 g_{1}^{2}$
 $89.1 g_{1}^{2} - 0.635L = 24.8g + AgNO_{3}$
Have a great waskend
 $Max = 1$

-5-