## Suggested answers - Practice Problem Set I

1 a) THERM. ALBOR

Note: REACTION GOES ON LESS SUBSTITUTED SIDE BECAUSE OF FASTER HEO BLIM.

b) of + Ph OEH V NeOEH, ETOH

2/ Haot - PH 3

GORS WIA.

END OF COLET

COLET

COLET

COLET

d) O V NaOR, ETOH

+ HC-OF (INT. USES NAH, PhH)

2/ H301-pH3

CI CH2 CO2 ET + Ph CHO (IT USES ) Ph (CO2 ET DARZEN'S.

GOES VIA

CI - CH - COLET

H

COLET

Ph

CCI

Ph

CCI

Ph

f)  $\stackrel{\circ}{\longrightarrow} \frac{\stackrel{\circ}{\longrightarrow} \stackrel{\circ}{\longrightarrow} \stackrel{\circ}{\longrightarrow}$ 

9) (ADD KETONE TO LDA

21 O

H

3/ NHICKY)

2a) NOTE: REN DOES NOT GIVE BECAUSE STEP LABELLED ORT OF CAN'T HAPPEN, .. Run NOT DRIVEN TO COMPLETION THERMOD. ALDOL GOES ON LESS SUBST. SIDE

REMEMBER: BECAUSE OF ELIMINATION KETOME ANION ATTACKS ALDERYDE COO RATHER THAN THE REVERSE

FIVE MEMBERED RING PREFERRED TO SEVEN

DUE TO OME INDUCED TRANSESTERIFICATION