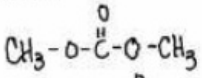
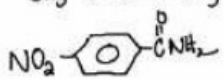
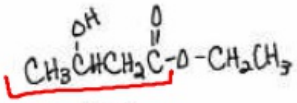
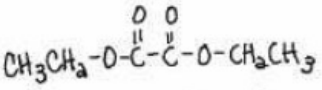
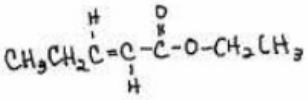
1/8/13 Hmwk: 11.4, 11.5, 11.7, 11.8, 11.9

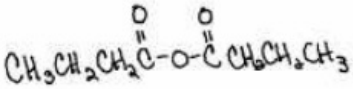
11.4 a) dimethyl carbonate 

b) p-nitrobenzamide 

c) ethyl 3-hydroxybutanoate 

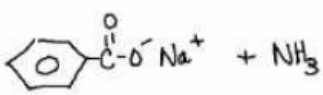
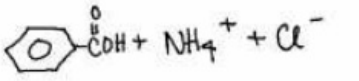
d) diethyl oxalate 

e) ethyl trans-2-pentenoate 

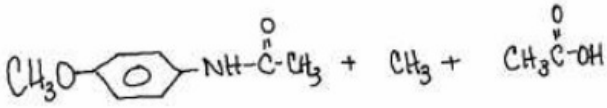
f) butanoic anhydride 

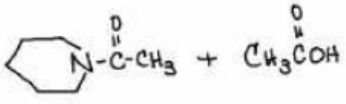
11.5 a) benzoic anhydride b) methyl decanoate c) N-methyl hexanamide

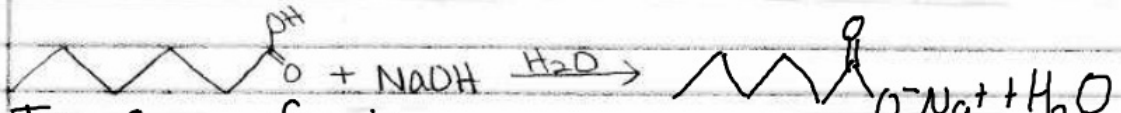
d) (4) p-aminobenzamide e) cyclopentyl ethanoate (acetate) f) ethyl 3-hydroxy-butanoate

11.7 a)  b) 

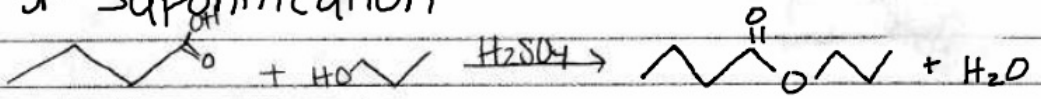
11.8 a) Yes b) No c) No

11.9 a) 

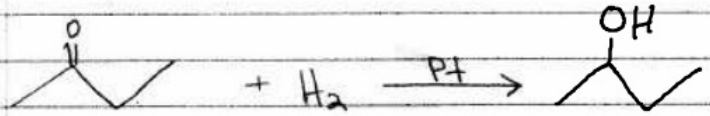
b) 



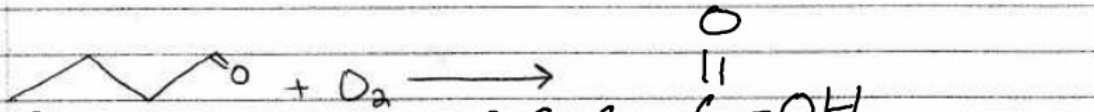
Type: Saponification



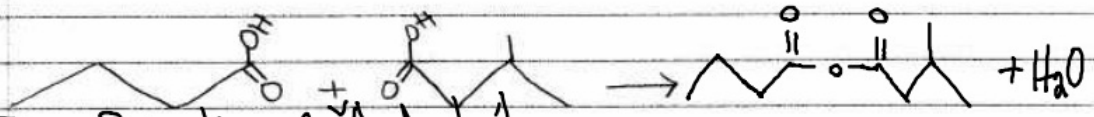
Type: Fischer Esterification



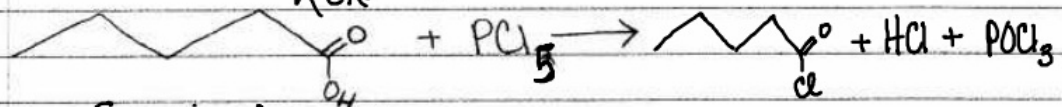
Type: Reduction



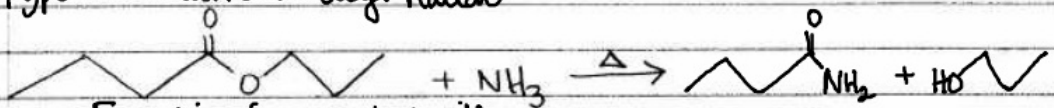
Type: Oxidation



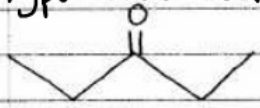
Type: Formation of Anhydride



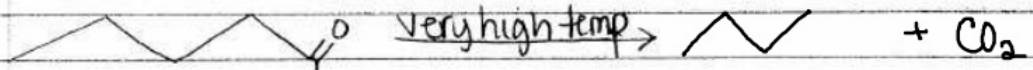
Type: Formation of an acyl halide



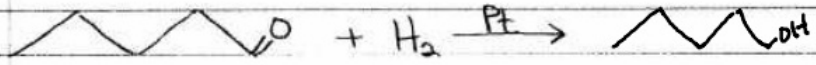
Type: Formation of an acyl amide



No Rxn

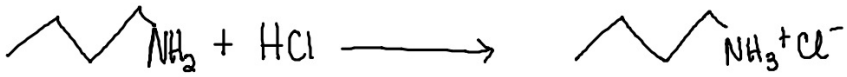


Type: decarboxylation



Type: reduction

Type: basicity of an amine



Type: neutralization of an amine

1 A	10 A	19 D	28 B	39 C
2 C	11 A	20 B	29 B	40 C
3 B	12 C	21 A	30 B	41 B
4 C	13 C	22 B	31 B	42 B
5 C	14 B	23 B	32 D	43 A
6 C	15 A	24 B	33 C	44 B
7 A	16 B	25 B	34 D	45 C
8 B	17 B	26 A	35 B	46 D
9 C/D	18 D	27 A	36 C	47 D
			37 B	48 A
			38 B	49 B
				50 A

#5 - excluding cyclic ketones

For Unit 5/6 Test (Ch 8, 9, 10, 11)

50 M.C. questions

Name / Illustrate:
- Aldehydes
- ketones
- Carboxylic Acids
- Amines (also common names)
- amides
- acid anhydrides
- esters

Reactions: (matching)
- oxidation
- reduction
- formation of:
  - esterfication
  - acyl halide
  - acyl amide
- neutralization
  - acid anhydride
- decarboxylation
- hydrolysis
- basicity of amine