Organic Chemistry Practice 2 **ANSWERS**

1. (a) Family: alkyl halides

(b) Family: alkanes

(c) Family: ketones

(d) Family: alkynes, alkyl halides

(e) Family: alkenes



(f) Family: ethers $CH_3CH_2OCH_2CH_2CH_3$

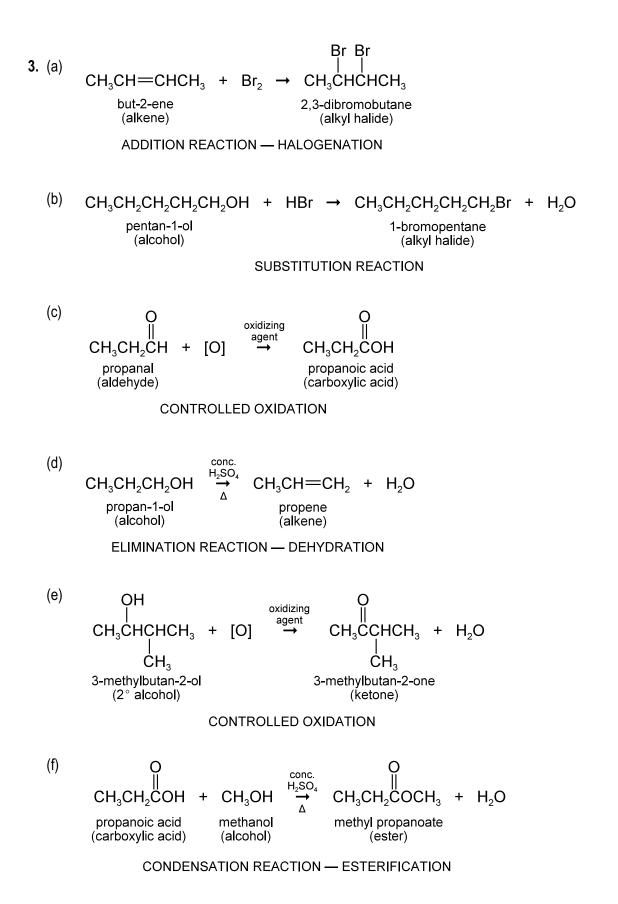
- (g) Family: aldehydes $\begin{array}{c} \mathsf{CH_3CH_2} \quad \mathsf{O} \\ \mathsf{H_3CH_2CH_2CH_2CH_2CH_2CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH} \\ \mathsf{CH_3CH} \\ \mathsf{CH_$
- (h) Family: alkenes CH_3 $CH_3C = CHCH_2CH_2CH_3$
- (i) Family: carboxylic acids

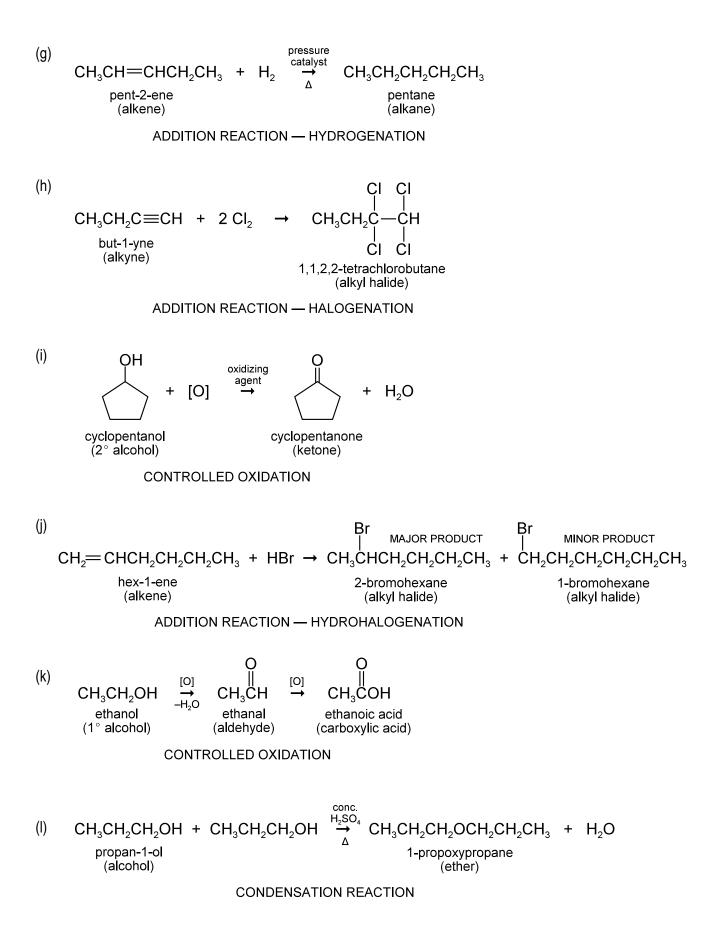
(j) Family: esters

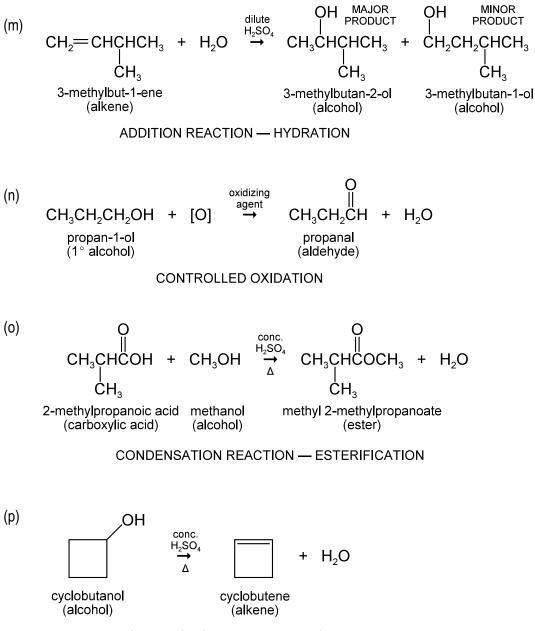
- (k) Family: alcohols OH H_{3} CHCH₂CHCH₂CH₂CH₂CH₃ CH₂CH₂CH₃
- (I) Family: alkyl halides

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Nonsystematic Name	Systematic Name	Structure
acetylene	ethyne	СН≡СН
formaldehyde	methanal	о Ш НСН
acetaldehyde	ethanal	О Ш СН ₃ СН
acetone	propan-2-one	О Ш СН₃ССН₃
formic acid	methanoic acid	о Ш нсон
acetic acid	ethanoic acid	O ∥ CH₃COH







ELIMINATION REACTION - DEHYDRATION