## 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  $CH_3CH_2OCH_2CH_2CH_3$ 

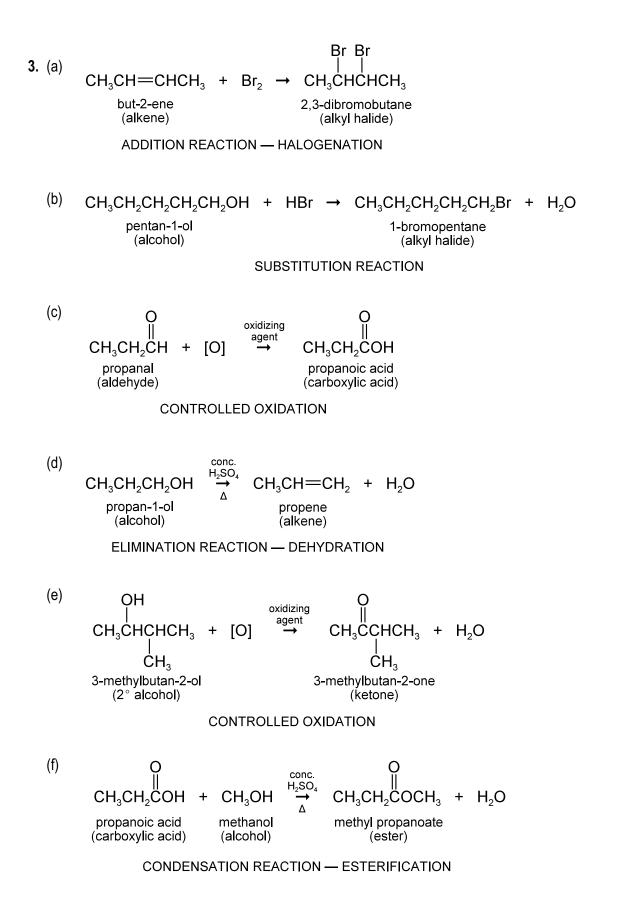
- (g) Family: aldehydes  $\begin{array}{c} \mathsf{CH_3CH_2} \quad \mathsf{O} \\ \mathsf{H_3CH_2CH_2CH_2CH_2CH_2CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH_2CH} \\ \mathsf{CH_3CH_2CH} \\ \mathsf{CH_3CH} \\ \mathsf{CH_$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

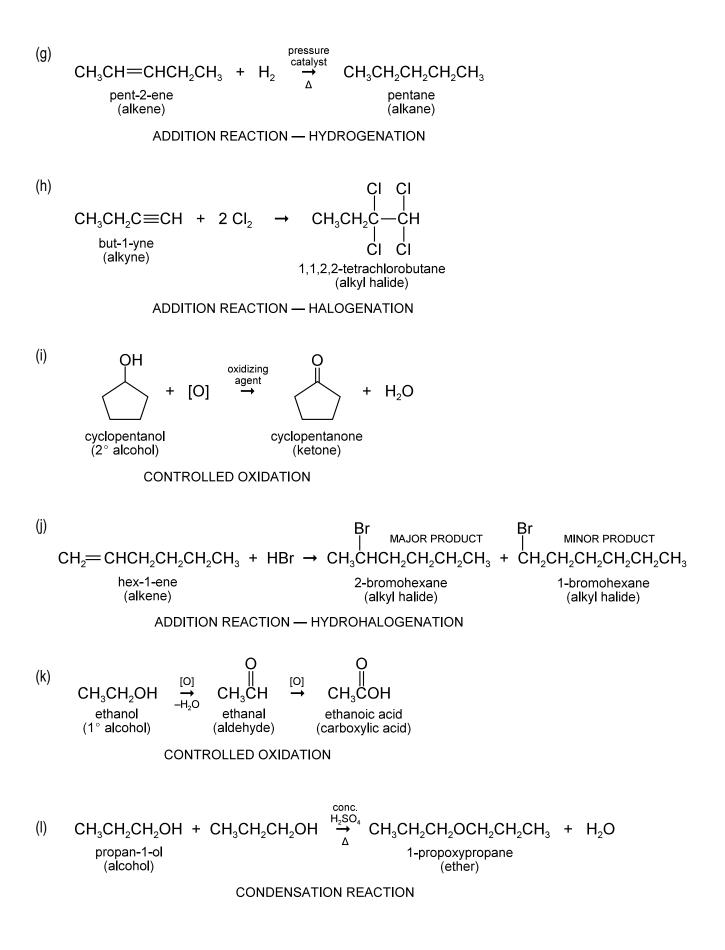
(j) Family: esters

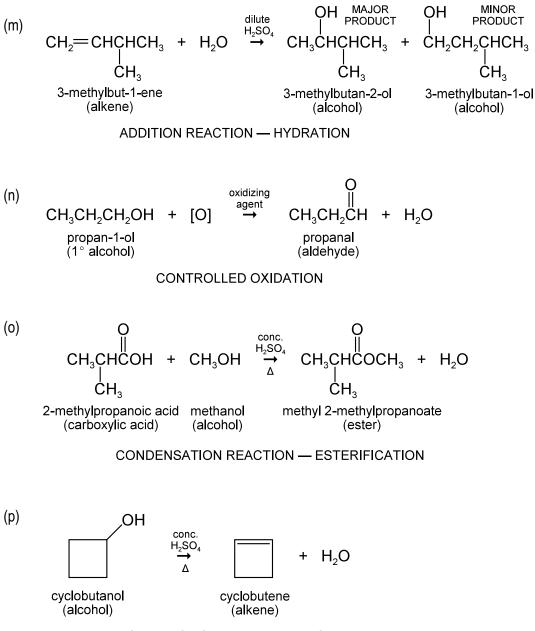
- (k) Family: alcohols OH  $H_{3}$ CHCH<sub>2</sub>CHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>
- (I) Family: alkyl halides

-	
-	

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







ELIMINATION REACTION - DEHYDRATION