## Functional Groups

1.) Circle the functional groups which exist in each of the following molecules and label each group as one

of:

DOU = double bond, ALC = alcohol,

TRI = triple bond, ALD = aldehyde, ARO = aromatic ring,

HAL = halide, ETH = ether,

AMN = amine,

AMD = amide,

KET = ketone,

CAR = carboxylic acid,

EST = ester.

Br-CH2CH2CH2CHCH3 ĊНз

HC≡CCH<sub>2</sub>C≡CH

(c) HOCH2CHCHCH2OH

CH3CH2CH=CHCHCH3 CI

CH<sub>2</sub>OH CH2OH

$$H_2C - CH_2$$
  
(g)  $H_2C$   $CH - CHC$   
 $H_2C - CH_2$ 

(h) CH2-CH2

CH3-CO-CHCH2CH2CH-CO-CH3 COOCH3 COOCH3

 $CH_2=CHCHC \equiv CH$ ĊНз

(n) 
$$O=C$$

$$CH=O$$

$$CH=OCH_3$$

$$H$$

$$O=C$$

$$H$$

CH2CH-COOH Ν̈́Η2

(w) 
$$CH_3$$
  $H$   $CH_3$   $CHO$   $CH_3$   $CHO$