California State Polytechnic University, Pomona

CHM 3150 Organic Chemistry I, Dr. Laurie S. Starkey Review questions for ACS exam (see also R/S quiz on Canvas)

1-6 Predict the major product(s) and describe the stereochemistry of the product(s) using choices A-E.

1.

CH₃CH=C(CH₃)₂
$$\xrightarrow{\text{HBr}}$$

2.

$$CH_3CH=C(CH_3)_2$$
 ROOR

- A) a single enantiomer
- B) a racemate
- C) a meso compound
- D) an achiral product, but not meso
- E) a mixture of diastereomers

3.

$$\begin{array}{c} O \\ CH_2CH_3 \end{array} \begin{array}{c} 1) \text{ LiAlH}_4 \\ \hline 2) \text{ H}_3O^+ \end{array}$$

$$H_2, Pd$$

7. Which of the following is the enantiomer of the given compound?

$$H$$
 CH_3 CH_2Br

IUPAC name of given compound?