

Daily Tutorial Sheet-13 Level - 3

147.(A) trans-2-ene + $Br_2 \longrightarrow meso$; cis-but-2-ene + $Br_2 \longrightarrow racemic mixture$

148.(CD)
$$H_3C$$
 CH_3 CH_3CO_3H CH_3CO_3H CH_3CO_3H CH_3

$$H_3C$$
 H_3C
 H_3C

Markovnikov's addition

149.(D)
$$CH_2 \xrightarrow{H_2O} CH_3$$
 OH

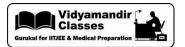
Anti-Markovnikov's addition

2 chiral centres are present. But it has plane of symmetry. So total no. of stereoisomers = 3. These are given below.

:. Two (II & III) are optically active and (I) is optically inactive

(b)
$$CH_3$$
 CH_3 $CH_$

Solution | Workbook-3 2 Hydrocarbons



152. The 6 different alkenes (A) to (F) are

$$A = \begin{pmatrix} CH_3 \\ H_2C \end{pmatrix} \qquad E = \begin{pmatrix} CH_3 \\ H_3C \end{pmatrix} \qquad CH_3 \qquad CH_4 \qquad CH_4 \qquad CH_5 \qquad CH_5$$