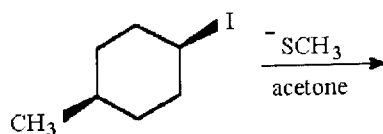
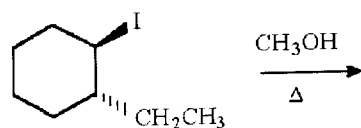


12) Provide the structure of the major organic product which results when (S)-2-iodopentane is treated with KCN in DMF.

13) Provide the structure of the major organic product in the following reaction.

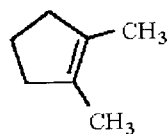


14) Provide the major organic product of the reaction below and a detailed, stepwise mechanism which accounts for its formation.

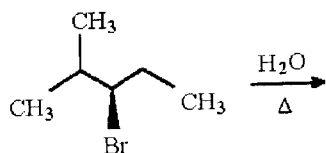


15) Provide a series of synthetic steps by which $(CH_3)_2C=CH_2$ could be prepared from 2-methylpropane.

16) When 1-bromo-2, 2-dimethylcyclopentane is heated in ethanol, one of the products which results is shown below. Provide a detailed, stepwise mechanism for the production of this compound, and give the name of the mechanism by which it is produced.



17) Provide the structure of the major organic product which results in the following reaction.



18) Provide the structure of the major organic product which results in the following reaction

