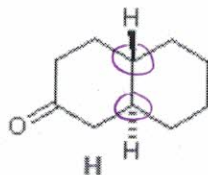
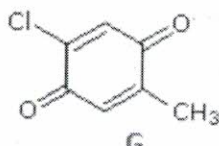
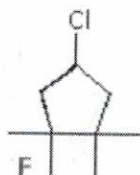
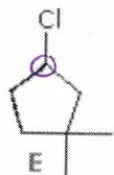
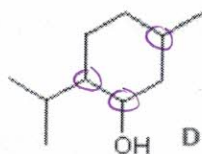
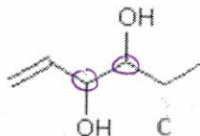
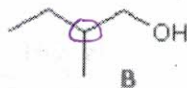
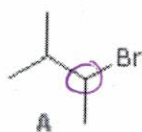


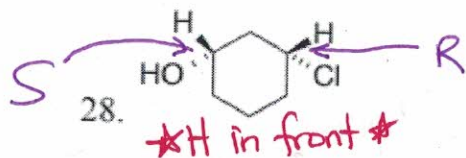
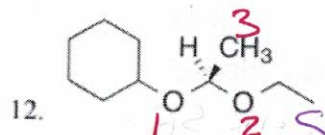
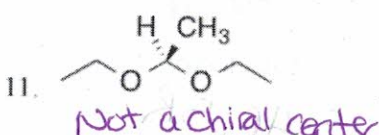
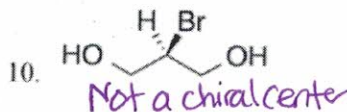
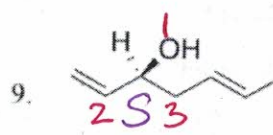
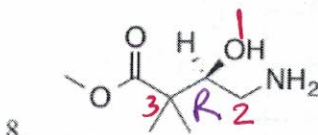
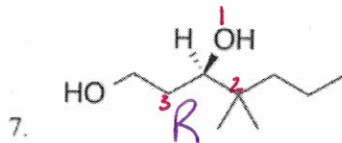
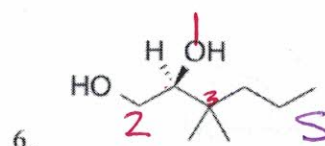
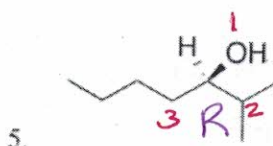
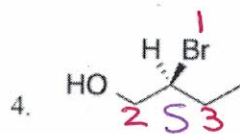
1. Identify all the chiral centers in the following compounds.



None

None

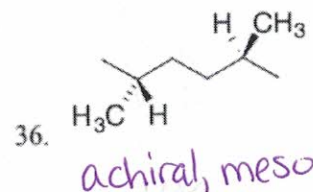
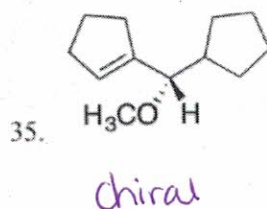
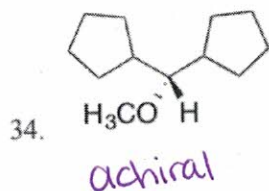
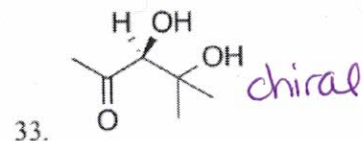
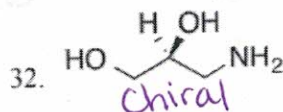
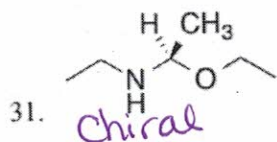
2. Assign R or S if applicable.



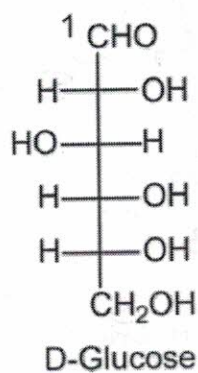
3. Determine the relationship between the following sets of compounds as enantiomers, diastereomers, same.

54.			Enantiomers
55.			Enantiomers
56.			Enantiomers
57.			Same
58.			Same
59.			Same
60.			Same
61.			Diastereomers

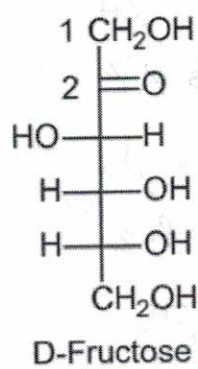
4. Identify if chiral or achiral. Write meso if it applies.



5. Identify any chiral centers in the following compounds and label them R or S.



2R, 3S, 4R, 5R



3S, 4R, 5R

6. Assign cis/trans or E/Z to each compound.

