

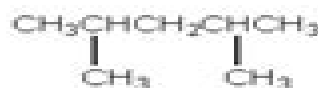
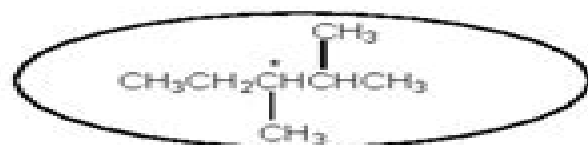
Problem Set 7: Stereochemistry-ANSWER KEY

Chemistry 260

Organic Chemistry

1. The answer is (2).

Circled isomers have a stereogenic carbon (*) and hence a stereogenic centre.
 $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_3$



2. Note: a star (*) is used to denote a stereogenic centre (tetrahedral geometry, bonded to 4 different groups) in the structures in this question.

(a) chiral



(b) not chiral - no stereogenic centre



(c) chiral



(d) not chiral - no stereogenic centre



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L Manion



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