

Answer Key

Testname: REVIEW QUESTIONS CHAPTER 3.TST

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

1) E

**SHORT ANSWER.** Write the word or phrase that best completes each statement or answers the question.

2) saturated

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

3) A

**ESSAY.** Write your answer in the space provided or on a separate sheet of paper.

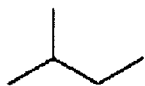
4)  $C_{16}H_{34}$

5) hexane or *n*-hexane

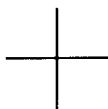
6)



pentane or *n*-pentane



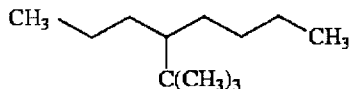
isopentane



neopentane

7) 2,5-dimethylheptane

8)



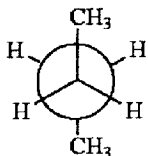
**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

9) B

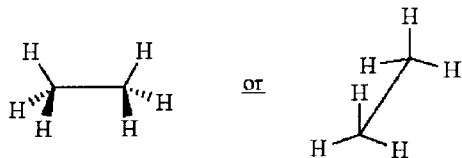
**ESSAY.** Write your answer in the space provided or on a separate sheet of paper.

10)  $CH_3(CH_2)_7CH_3 + 14 O_2 \rightarrow 9 CO_2 + 10 H_2O$

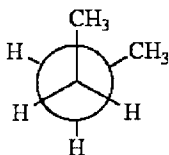
11)



12)



13)



14) The angle strain arises from the compression of the ideal tetrahedral bond angle of  $109.5^\circ$  to  $60^\circ$ . The large torsional strain occurs since all C–H bonds on adjacent carbons are eclipsed.