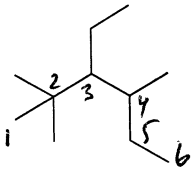
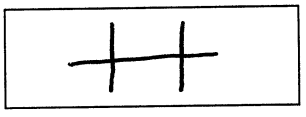
Key

1. (5) Write the **IUPAC name** for the following compound (clearly write you answer in the box):

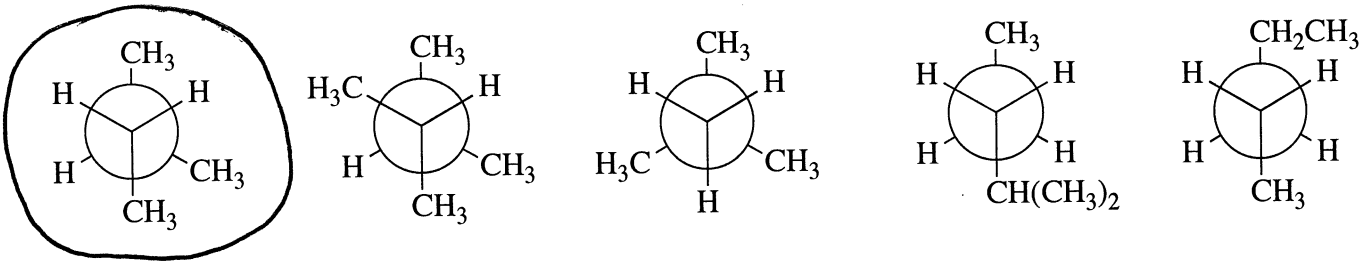


3-ethyl-2,2,4-trimethylhexane

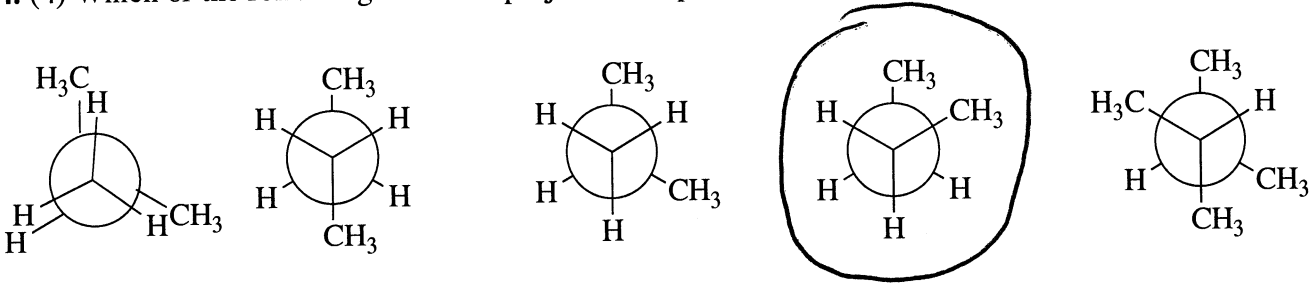
2. (4) Draw in the box the **skeletal structure** of 2,2,3,3-tetramethylbutane:



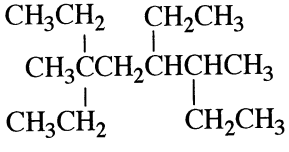
3. (5) Which of the following Newman projections represents **2-methylbutane** (circle correct answer)?



4. (4) Which of the following Newman projections represents the ***gauche*** conformation of **butane**?



5. (4) How many 1°, 2°, 3° and 4° carbon atoms are in the following structure? (put numbers in the boxes, 1 pt each box):



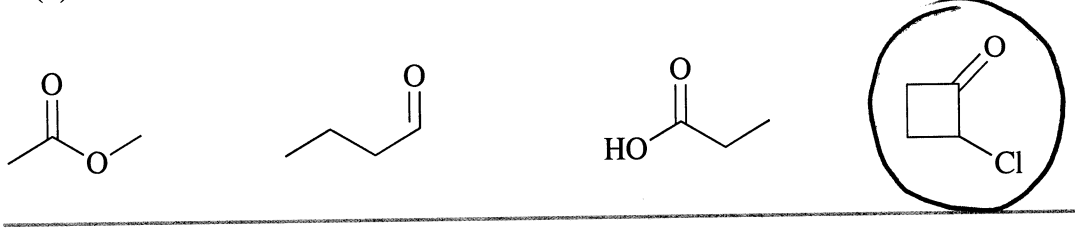
number of *primary* carbons: 6

number of *tertiary* carbons: 2

number of *secondary* carbons: 5

number of *quaternary* carbons: 1

6. (3) Which of the following compounds is a ketone?



$CH_3CO_2CH_3$

Overall Score: 25