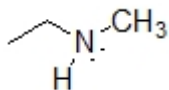


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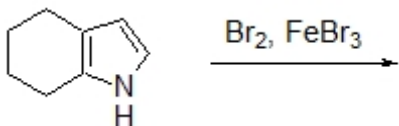
Organic II Lecture
Spring 2011
Quiz #6
(10 points)

1. Draw a structure for the product resulting from treatment of N,N-dimethylhexan-2-amine with a peroxy acid and heat. (3 points, problem 19-21a)

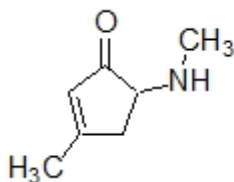
2. Predict the correct pK_b value for the structure below within +/- 1 unit. (2 points)



3. Predict the product of the following reaction. (2 points)



4. Identify the correct systematic name for the following structure. (3 points)



- a) 1,N-dimethyl-3-oxocyclopent-1-enamine
- b) 4,N-dimethyl-2-oxocyclopent-3-enamine
- c) 4-methyl-2-(methylamino)cyclopent-4-enone
- d) 5-amino-3,N-dimethylcyclopent-2-enone
- e) 3-methyl-5-(methylamino)cyclopent-2-enone