

**Chem 2300
Bonus Quiz**

December 6, 2010

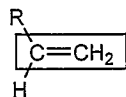
Name: _____ **(Please print)**
(First) (Last)

Last 4 digits of Banner No.	Score				
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I. Multiple Choice (/10)	/20				
Total score	/20				

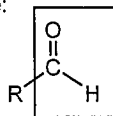
I. Multiple choice questions. Please put your answers on Scantron sheet. Your score will be graded based only on your answers from Scantron sheet. (10 questions, 20 points)

1. Which of the followings represent the correct name of functional groups circled in the boxes?

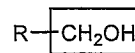
I. Alkene:



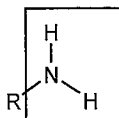
II. Ketone:



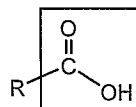
III. aldehyde:



IV. Amine:

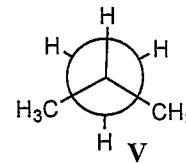
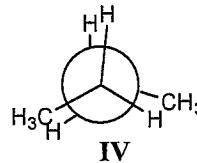
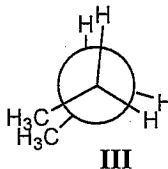
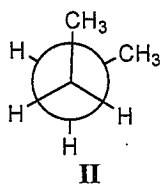
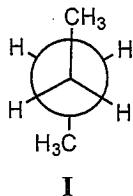


V. Carboxylic acid:



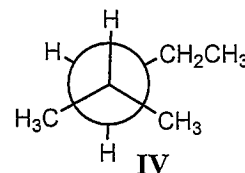
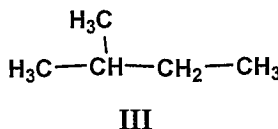
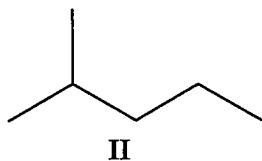
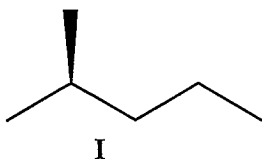
- (a) I, III, V
- (b) I, IV, V
- (c) I, III, IV, V
- (d) I, II, III, IV
- (e) None of the above

2. Which of the following molecules in Newman projection represents isobutane?



- (a) I
- (b) II
- (c) III
- (d) IV
- (e) V

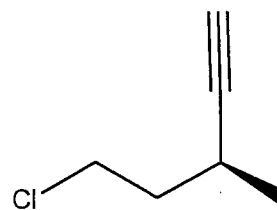
3. Which of the following compound is not the structural isomer as compared to others?



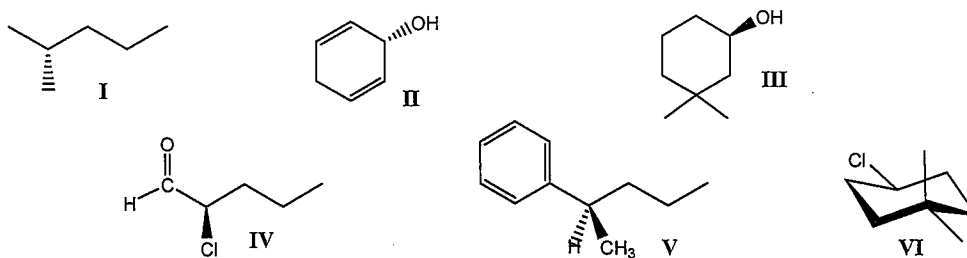
- (a) I
- (b) II
- (c) III
- (d) IV
- (e) None of the above

4. What is the IUPAC name for the following compound?

- (a) (R)-5-chloro-3-methyl-1-pentyne
- (b) (S)-5-chloro-3-methyl-1-pentyne
- (c) (R)-1-chloro-3-methyl-4-pentyne
- (d) (S)-1-chloro-3-methyl-4-pentyne
- (e) None of the above

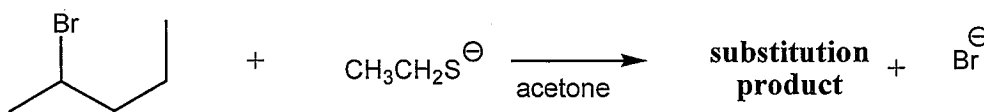


5. Which of the following are chiral molecules?



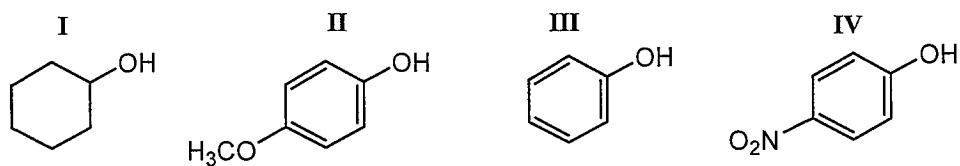
- (a) II, IV, VI
- (b) I, III, IV
- (c) III, IV, V
- (d) III, IV, V, VI
- (e) None of the above

6. What could be the **substitution** product for the following reaction?



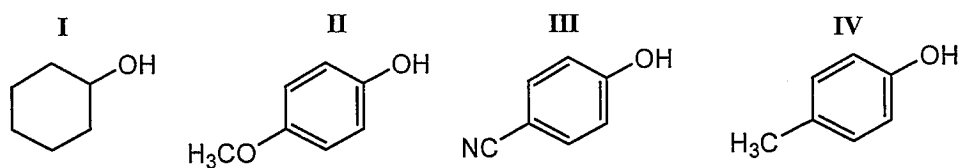
- (a)
- (b)
- (c)
- (d)
- (e) None of the above

7. What is order of decreasing acidity for the following alcohols? (from most to least)



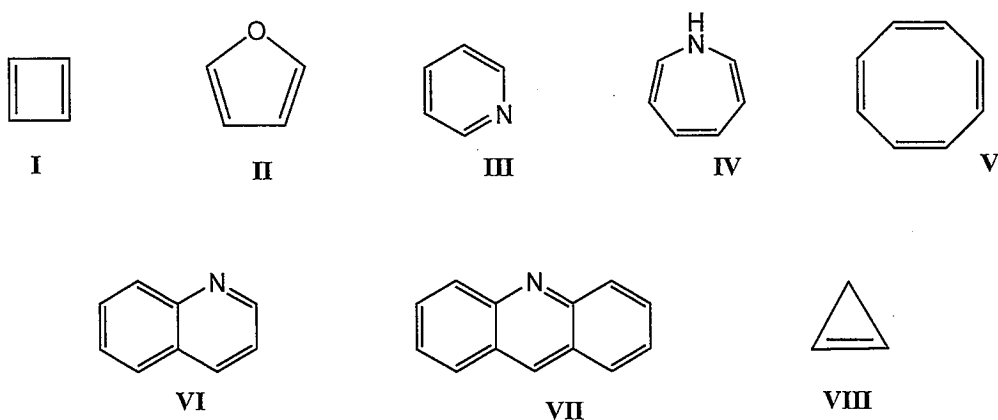
- (a) I>II>III>IV
 (b) IV>III>II>I
 (c) III>II>IV>I
 (d) IV>III>I>II
 (e) None of the above

8. What is order of decreasing acidity for the following alcohols? (from most to least)



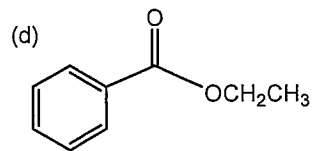
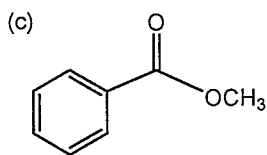
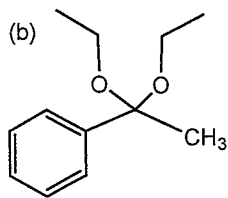
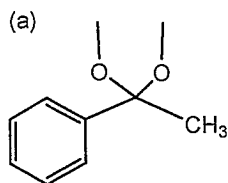
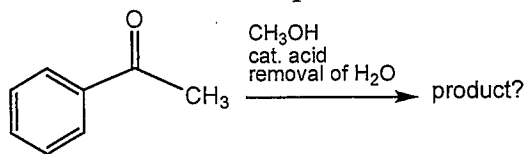
- (a) III>IV>II>I
 (b) IV>III>II>I
 (c) III>II>IV>I
 (d) IV>III>I>II
 (e) None of the above

9. Which of the following compounds are aromatic compounds?



- (a) II, III, VI, VII
 (b) II, V, VII, VIII
 (c) III, VI, VII
 (d) III, VI, VII, VIII
 (e) None of the above

10. What could be the product for the following reaction?



(e) none of the above