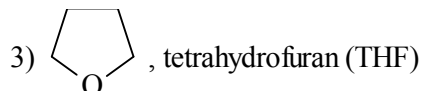


1. Which one of the following would not be a suitable solvent for Grignard reagents?

1) $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$, diethyl ether



2) $\text{CH}_3\text{CH}_2\text{OH}$, ethanol

4) they would all be suitable solvents

1) 1

2) 2

3) 3

4) 4

2. Which of the following has the largest acid dissociation constant, K_a ?

1) CH_3CH_3

2) $\text{H}_2\text{C}=\text{CH}_2$

3) $\text{HC}\equiv\text{CH}$

4) $\text{CH}_3\text{CH}_2\text{OMgBr}$

3. Select the strongest base in the following.

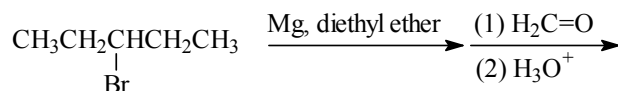
1) NaNH_2

2) CH_3Li

3) $\text{NaOCH}_2\text{CH}_3$

4) $\text{HC}\equiv\text{CNa}$

4. What is the major product of the following reaction?



1) 2-ethyl-1-pentanol

2) 2-ethyl-1-butanol

3) 3-pentanol

4) 3-methyl-1-pentanol

5. The reaction of excess Grignard reagent with an ester of formic acid, HCO_2R , gives:

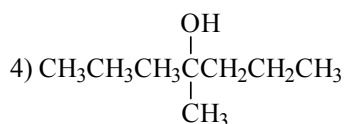
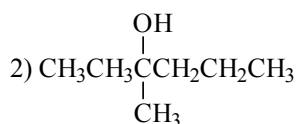
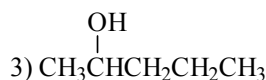
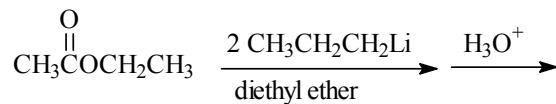
1) a primary alcohol

2) a secondary alcohol

3) a tertiary alcohol

4) methanol

6. What is the product of the following reactions?



1) 1

2) 2

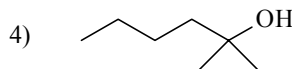
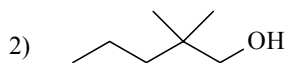
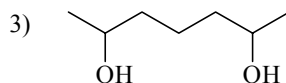
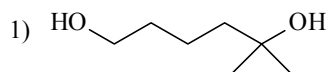
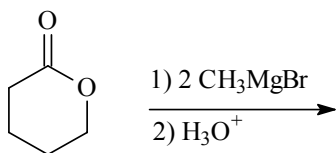
3) 3

4) 4

7. The reaction of 4-methylcyclohexanone with CH_3MgBr followed by neutralization gives two alcohols. These two alcohols are;

- 1) constitutional isomers
- 2) enantiomers formed in equal amounts
- 3) enantiomers formed in unequal amounts
- 4) diastereomers

8. What is the product of the following reaction?



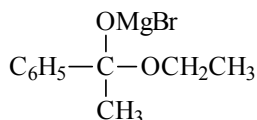
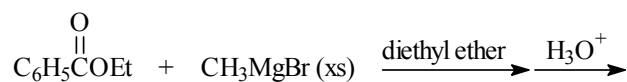
1) 1

2) 2

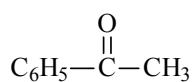
3) 3

4) 4

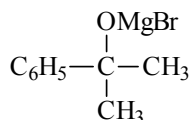
9. Which of the following are intermediates in the reaction of excess methylmagnesium bromide with ethyl benzoate (shown below) to make 2-phenyl-2-propanol?



A



B



C

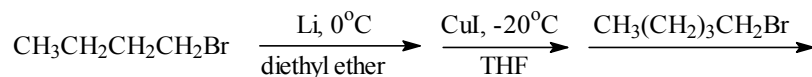
1) A and B

2) A and C

3) B and C

4) A, B, and C

10. What is the product of the reaction shown below?



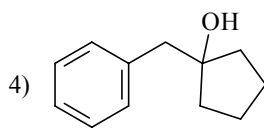
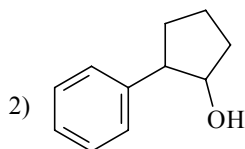
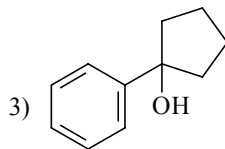
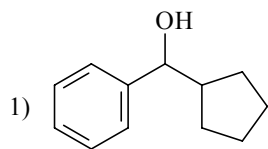
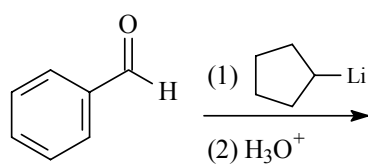
1) 4-nonene

2) nonane

3) 4-bromononane

4) 5-bromononane

14. What is the product of the following reaction?



1) 1

2) 2

3) 3

4) 4

Answer Key for Test "211c14q1.tst", 12/29/2003

No. in Q-Bank	No. on Test	Correct Answer
14	1	2
14	3	4
14	5	2
14	7	2
14	9	2
14	11	4
14	13	4
14	15	1
14	17	4
14	19	2
14	21	1
14	23	2
14	25	1
14	27	1