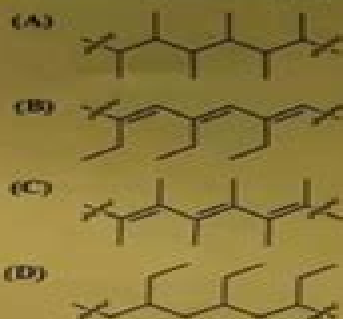


25. Which two compounds ionize with loss of a bromide ion to form the same carbocation?



- (A) I and IV
(B) II and III
(C) III and IV
(D) I and II

26. What is the product of polymerization of 1-butene?



27. Which synthetic sequence will give the highest yield of this product?



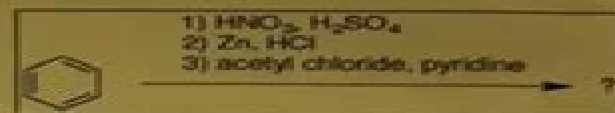
- (A) $\text{H}_3\text{C}-\text{C}\equiv\text{C}-\text{H} \xrightarrow{\text{NaNH}_2} \text{CH}_3-\text{C}(\text{Br})-\text{CH}_3 \xrightarrow{\text{H}_2, \text{Lindlar}}$
(B) $\text{H}_3\text{C}-\text{C}\equiv\text{C}-\text{H} \xrightarrow{\text{NaNH}_2} \text{CH}_3-\text{C}(\text{Br})-\text{CH}_3 \xrightarrow{\text{Na}, \text{NH}_3}$
(C) $\text{CH}_3-\text{C}\equiv\text{C}-\text{H} \xrightarrow{\text{NaNH}_2} \text{CH}_3-\text{C}(\text{Br})-\text{CH}_3 \xrightarrow{\text{H}_2, \text{Lindlar}}$
(D) $\text{CH}_3-\text{C}\equiv\text{C}-\text{H} \xrightarrow{\text{NaNH}_2} \text{CH}_3-\text{C}(\text{Br})-\text{CH}_3 \xrightarrow{\text{Na}, \text{NH}_3}$

28. What is the major product?



- (A) $\text{H}_3\text{CH}_2\text{CH}_2\text{C}(\text{OH})(\text{H})\text{CH}_2\text{CH}_3$
(B) $\text{H}_3\text{CH}_2\text{CH}_2\text{C}(\text{OH})(\text{H})\text{CH}_2\text{CH}_3$
(C) $\text{H}_3\text{CH}_2\text{CH}_2\text{C}(\text{OH})(\text{H})\text{CH}_2\text{CH}_3$
(D) $\text{H}_3\text{CH}_2\text{CH}_2\text{C}(\text{OH})(\text{H})\text{CH}_2\text{CH}_3$

29. What is the major product?



- (A) $\text{C}_6\text{H}_5\text{NHCOCH}_3$
(B) $\text{C}_6\text{H}_4(\text{NH}_2)\text{COCH}_3$
(C) $\text{C}_6\text{H}_4(\text{NH}_2)\text{CH}_2\text{CH}_3$
(D) $\text{C}_6\text{H}_4(\text{NH}_2)\text{Cl}$

30. Rank from slowest to fastest rate of electrophilic aromatic substitution.



- (A) I < II < III
(B) III < II < I
(C) II < III < I
(D) II < I < III

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Cooper, Thomas J. Greenbowe**



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Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 Part of the Prentice Hall Series in Educational Innovation for Chemistry this unique book is a collection of information examples and references on learning theory teaching methods and pedagogical issues related to teaching chemistry to college students In the last several years there has been considerable activity and research in chemical education and the materials in this book integrate the latest developments in chemistry Each chapter is written by a chemist who has some expertise in the specific technique discussed has done some research on the technique and has applied the technique in a chemistry course

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