

CEM 251 (730)

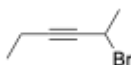
Quiz 4

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1.

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(3-pts.) What is the IUPAC name for the compound below?



A 2-bromohex-2-yne

B 2-bromohex-3-yne

C 3-bromohex-3-yne

D 2-bromohexyne

2.

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what
(3-pts) is the hybridized orbitals for the sigma bond in carbon-carbon triple bond?

A sp³-sp³

B sp²-sp²

C

sp-sp

D

s-s

3.

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(3-pts) Which of the reagents below would be appropriate for the conversion below?



A. $\text{H}^+/\text{H}_2\text{O}$

B. $\text{Br}_2/2 \text{NaNH}_2$

C. Cl_2/NaOH

D. 2 LDA

A

A

B

B

C

C

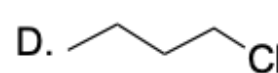
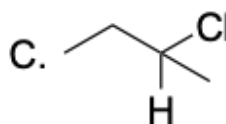
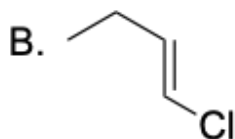
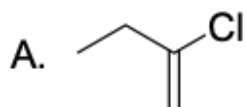
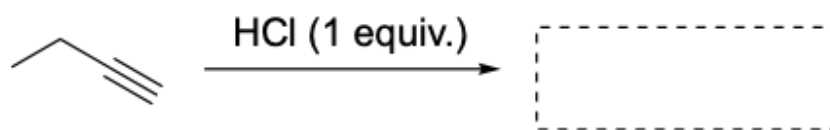
D

D

4.

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(3-pts) Provide the product for the reaction below?



A

A

B B

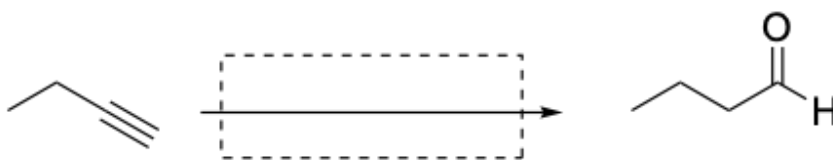
C C

D D

5.

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(3-pts.) Which reagent is necessary for the transformation below?



A. $\text{H}_2\text{SO}_4, \text{HgSO}_4, \text{H}_2\text{O}$ B. $\text{BH}_3, \text{H}_2\text{O}_2, \text{NaOH}$ C. $\text{H}^+/\text{H}_2\text{O}$ D. OsO_4

A A

B B

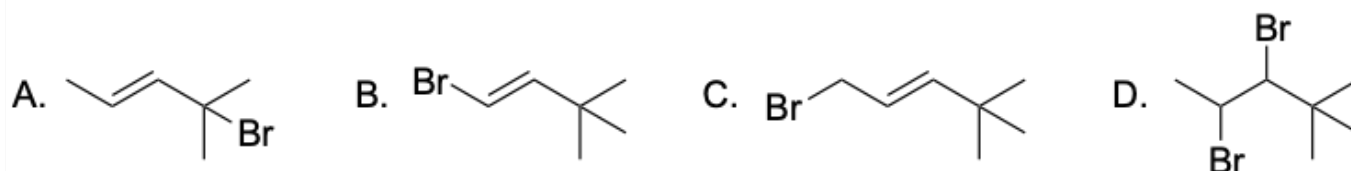
C C

D D

6.

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(3-pts.) Using NBS as the brominating agent, predict the product of the reaction below.

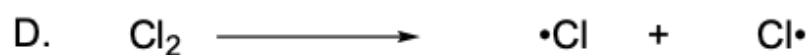
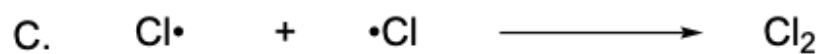
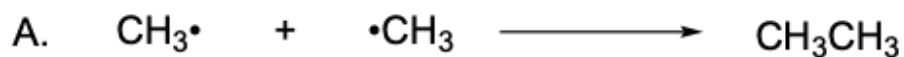


A	A
B	B
C	C
D	D

7

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(3-pts) Which of the radical reactions below belongs to propagation step?

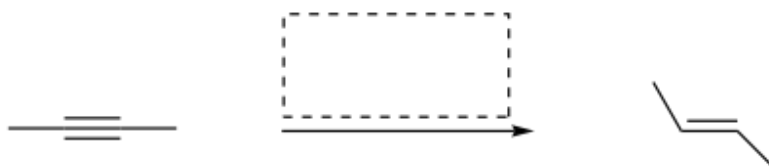


A	A
B	B
C	C
D	D

8.

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(3-pts.) Which of the following hydrogenation reagents is required for the transformation of 2-butyne to trans-2-butene?



A	Lindlars's catalyst
B	H ₂ /Pt
C	H ₂ /Ni
D	Na/NH ₃ (l)

9.

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(1-pt) During the depletion of the ozone layer CFC gas which of the following radicals is not produced?

A	•OCl
B	•F

C	•Cl
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D	•C
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