Exam Tonight + Tomorrow Night

Answer A
\[ \text{MeO}-\overset{0}{\text{C}}-\overset{0}{\text{O}}-\overset{\text{MeO}}{\text{Me}} \stackrel{\text{NaOme}}{\longrightarrow} \text{MeOH} \Rightarrow \text{CH}_3\text{Br (1 mole)}} \stackrel{\text{heat}}{\longrightarrow} \]

\[ \text{MeO-} \overset{1}{\text{C}}-\overset{2}{\text{C}}-\overset{3}{\text{C}}-\overset{4}{\text{C}}-\overset{0}{\text{Me}} \]

\[ \text{MeO-} \overset{1}{\text{C}}-\overset{2}{\text{C}}-\overset{3}{\text{C}}-\overset{4}{\text{C}}-\overset{0}{\text{Me}} \]

\[ \text{MeO-} \overset{1}{\text{C}}-\overset{2}{\text{C}}-\overset{3}{\text{C}}-\overset{4}{\text{C}}-\overset{0}{\text{Me}} \]

\[ \text{MeO-} \overset{1}{\text{C}}-\overset{2}{\text{C}}-\overset{3}{\text{C}}-\overset{4}{\text{C}}-\overset{0}{\text{Me}} \]

\[ \text{MeO-} \overset{1}{\text{C}}-\overset{2}{\text{C}}-\overset{3}{\text{C}}-\overset{4}{\text{C}}-\overset{0}{\text{Me}} \]

\[ \text{MeO-} \overset{1}{\text{C}}-\overset{2}{\text{C}}-\overset{3}{\text{C}}-\overset{4}{\text{C}}-\overset{0}{\text{Me}} \]
No α-H
Everything goes back to start
Answer B
$\text{Ph}_3\text{P} \text{CH}_3\text{Br} \xrightarrow{n-\text{BuLi}} \text{Ph}_3\text{P} = \text{CH}_2$

$\text{Ph}_2\text{P} = \text{O}$

Answer D
Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

\[ \text{A} \xrightarrow{\text{NaOMe, heat}} \text{B} \xrightarrow{\text{NaOH, heat}} \text{C} \xrightarrow{\text{H}_2\text{O}^+, \text{heat}} \text{D} \]

E - None of these products are a major product of the reaction that is shown.

Give the major organic product(s) of the following reaction. Give your answer as a text answer, with the correct answers being listed in alphabetical order. (Example: xxxx a b)

\[ \text{Ph}_3\text{P}^+\text{CH}_3\text{Br} \xrightarrow{n\text{-BuLi}} \text{A} \xrightarrow{?} \text{B} \xrightarrow{?} \text{C} \xrightarrow{?} \text{D} \]

E - None of these products are a major product of the reaction that is shown.