Give the major product(s) of the following reaction. 2016-06-02 Q1

A  Br
B  Br
C  OH
D  OH
E
F
G  HO
H
I None of the above
Exam 2

• Time:
  — Monday, June 6 @ 10:30 AM
  • There are no alternate exam arrangements

• Location – Soc/Anthro Testing Center

• Practice Exams are Posted
  — B4-04-90 Exam 2A (Practice)
  — B4-04-91 Exam 2 with Drawing (Practice)

• YouTube Tutorials will be turned off at 10:00 am on Monday, June 6 and will remain off.
## Order of Coverage

<table>
<thead>
<tr>
<th>Homework Assignment</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4-03-01 Recognizing Chiral Carbons</td>
<td>Saturday, May 28, 2016</td>
</tr>
<tr>
<td>B4-03-02 R or S Configurations</td>
<td>Sunday, May 29, 2016</td>
</tr>
<tr>
<td>B4-03-03 Fischer Projections</td>
<td>Sunday, May 29, 2016</td>
</tr>
<tr>
<td>B4-03-04 Enantiomers or Diastereomers</td>
<td>Monday, May 30, 2016</td>
</tr>
<tr>
<td>B4-04-01 Alkene Nomenclature</td>
<td>Tuesday, May 31, 2016</td>
</tr>
<tr>
<td>B4-04-01A Alkene Nomenclature Drawing</td>
<td>Tuesday, May 31, 2016</td>
</tr>
<tr>
<td>B4-04-01B Alkene Nomenclature fib</td>
<td>Tuesday, May 31, 2016</td>
</tr>
<tr>
<td>B4-04-02A Alkene Rxns HX Mechanism</td>
<td>Wednesday, June 1, 2016</td>
</tr>
<tr>
<td>B4-04-02B Alkenes HX Products</td>
<td>Wednesday, June 1, 2016</td>
</tr>
<tr>
<td><strong>B4-04-03A Alkenes ROH Mechanisms</strong></td>
<td><strong>Thursday, June 2, 2016</strong></td>
</tr>
<tr>
<td>B4-04-03B Alkenes ROH Products</td>
<td><strong>Thursday, June 2, 2016</strong></td>
</tr>
<tr>
<td>B4-04-04A Alkene Halogens Mechanism</td>
<td><strong>Friday, June 3, 2016</strong></td>
</tr>
<tr>
<td>B4-04-04B Alkene Halogens Products</td>
<td><strong>Friday, June 3, 2016</strong></td>
</tr>
<tr>
<td>B4-04-05 Alkene Redox</td>
<td>Saturday, June 4, 2016</td>
</tr>
<tr>
<td>Exam 2</td>
<td><strong>Monday, June 6, 2016</strong></td>
</tr>
</tbody>
</table>
Give the major product(s) of the following reaction.

A Br
B Br
C OH
D OH
E Br
F Br
G OH
H OH
I None of the above
Give the major product(s) of the following reaction. 

```
\[ \text{A} \xrightarrow{\text{HBr}} \text{B} \xrightarrow{\text{H}_2\text{O}_2} \text{?} \]
```

Options:

- A. \( \text{Br} \)
- B. \( \text{Br} \)
- C. \( \text{OH} \)
- D. \( \text{OH} \)
- E. \( \text{Br} \)
- F. \( \text{Br} \)
- G. \( \text{OH} \)
- H. \( \text{OH} \)
- I. None of the above

2016-06-02 Q3

3643
Give the major product(s) of the following reaction. 2016-06-02 Q4

1) BH₃

2) H₂O₂, NaOH

A  Br
B  Br
C  OH
D  OH
E  Br
F  
G  HO
H  
I  None of the above
Big E\textsuperscript{+} addition to alkenes

comes in on the side of the better C\textsuperscript{+}

No Rearrangements with big E\textsuperscript{+}

H\textsuperscript{+}\text{-}\text{O}\text{-}H\text{ get rid of} \text{Hg} \text{ O}\text{-}H

Na B\text{H}_{4}
\[ \text{1) } \text{Hg(OAc)\textsubscript{2}, CH\textsubscript{3}OH} \]

\[ \text{2) } \text{NaBH\textsubscript{4}} \]
Give the major product(s) of the following reaction.  

\[
\text{1) } \text{Hg(OAc)}_2, \text{H}_2\text{O} \\
\text{2) } \text{NaBH}_4
\]

\[ \square \]

A \quad B \quad C \quad D \quad E \quad F \quad G \quad H \quad I \quad \text{None of the above}
With WE-LEARN, acyclic rxns do not need stereochem. Cyclic structures => stereochem must be shown.
overall no reaction for $I_2$ only
Give the major product(s) of the following reaction.

A  B  C  D  E  F  G  H  I None of the above
Consider the following as a reaction mechanism and put the intermediates in order of occurrence in the reaction.

\[
\text{Br}_2 \quad 2016-006-02 \quad \text{Q8} \quad \text{cbd}
\]
Consider the following as a reaction mechanism and put the intermediates in order of occurrence in the reaction.

\[ \text{Cyclohexene} \xrightarrow{\text{Br}_2, \text{H}_2\text{O}} \] 2016-006-02 Q9

A \quad B \quad C \quad D \quad E \quad F

1st
Give the major product(s) of the following reaction.

\[ 	ext{Br}_2 \quad \text{H}_2\text{O} \quad \text{?} \]

\[ \text{A} \quad \text{B} \quad \text{C} \quad \text{D} \quad \text{E} \quad \text{F} \quad \text{G} \quad \text{H} \]

I  None of the above