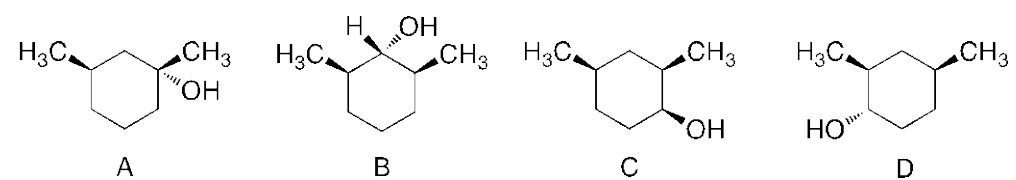
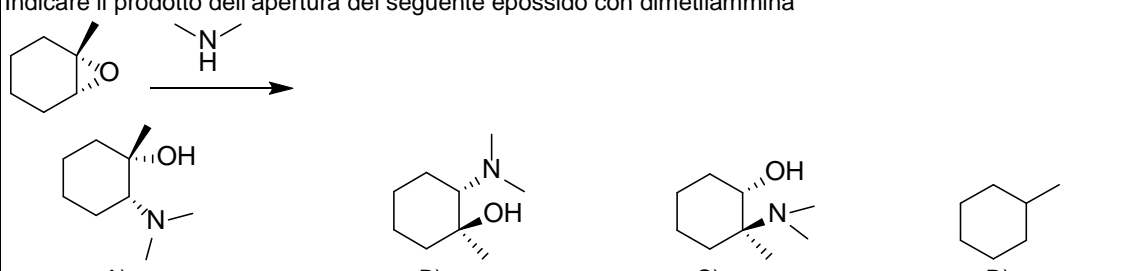
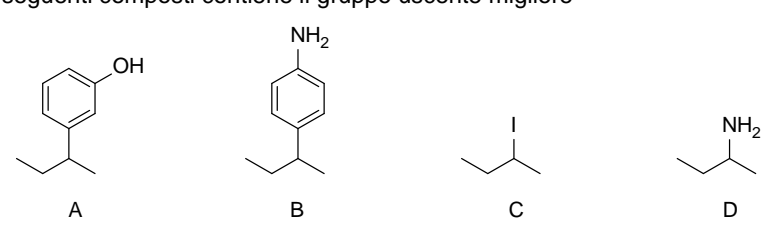
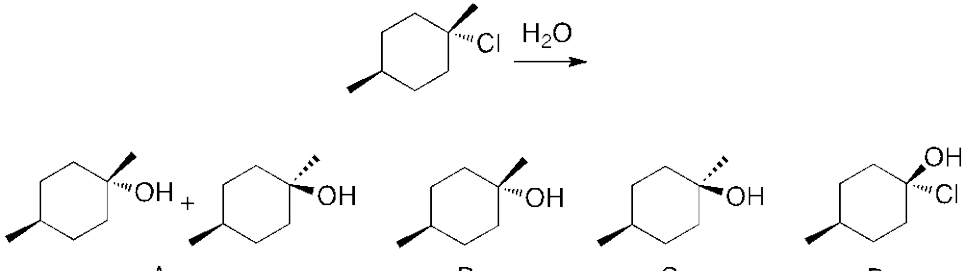
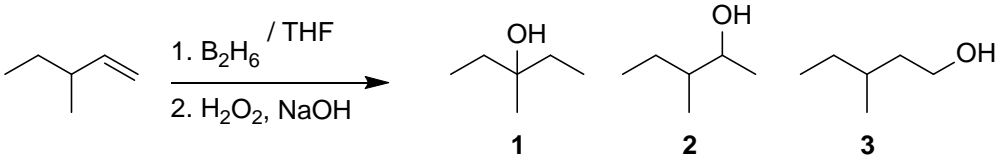
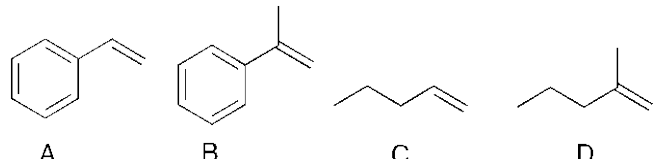
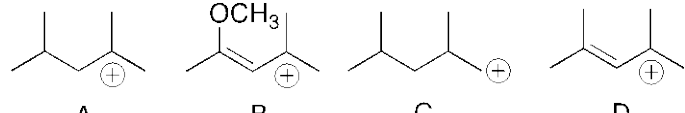
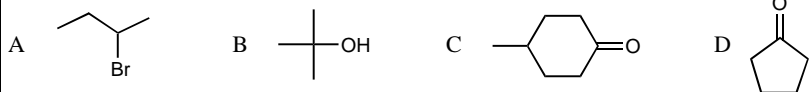
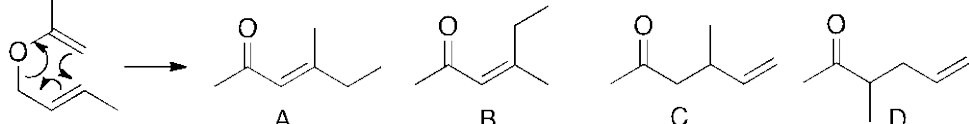
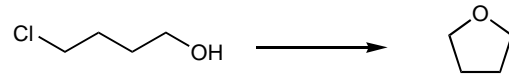
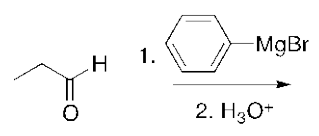




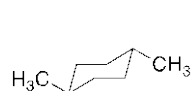
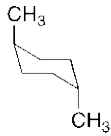
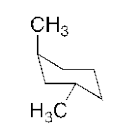
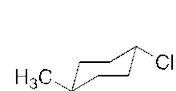

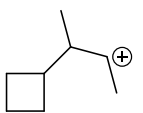
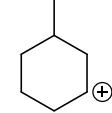
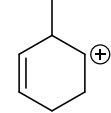
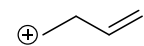
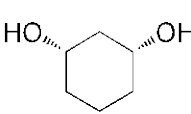
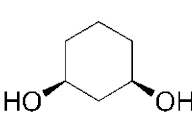
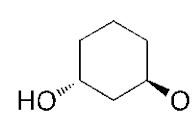
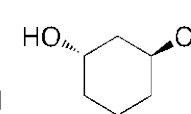
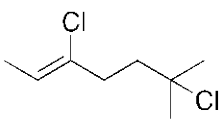
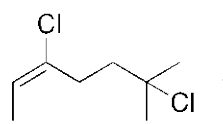
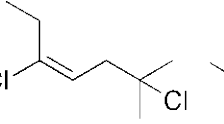
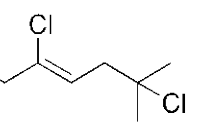
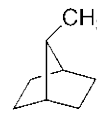
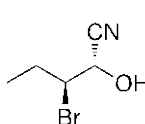
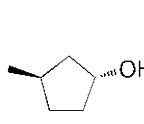
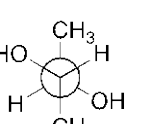
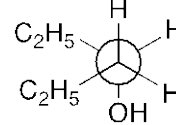
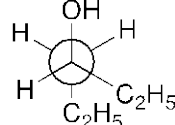
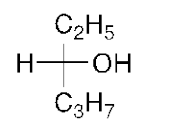
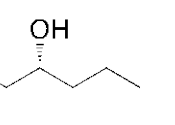
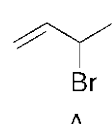
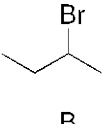
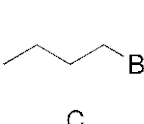
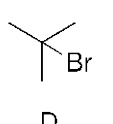
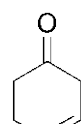
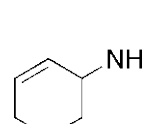
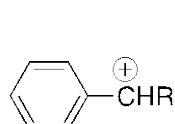
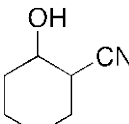
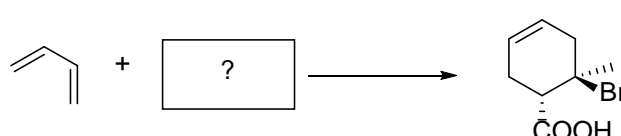
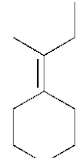
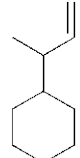
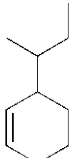
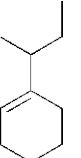


1	<p>Quando l'alcol incognito I viene trattato con acido solforico si formano principalmente i prodotti indicati nella seguente reazione. Quale è la struttura di I?</p> $  \begin{array}{c}  \text{I} \xrightarrow[\text{H}_2\text{O}, \Delta]{\text{H}_2\text{SO}_4} \text{H}_3\text{C}-\text{C}_6\text{H}_8-\text{CH}_3 + \text{H}_3\text{C}-\text{C}_6\text{H}_8-\text{CH}_3 \\  \text{(1,2-dimethylcyclohexene)}  \end{array}  $  <p style="text-align: center;">A                      B                      C                      D</p>	
2	<p>I punti di ebollizione dell'etere dimetilico e dell'etanolo sono rispettivamente <math>-24.8\text{ }^\circ\text{C}</math> e <math>78.5\text{ }^\circ\text{C}</math>. Quale variazione di interazione intermolecolare è responsabile del valore più elevato del punto di ebollizione dell'etanolo?</p> <p>A    Aumento delle interazioni di van der Waals  B    Aumento del carattere ionico del legame C-O  C    Aumento dei legami a idrogeno  D    Aumento delle interazioni metile-metile</p>	
3	<p>Indicare il prodotto dell'apertura del seguente epossido con dimetilammina</p>  <p style="text-align: center;">A)                      B)                      C)                      D)</p>	
4	<p>Indica quale tra i seguenti composti contiene il gruppo uscente migliore</p>  <p style="text-align: center;">A                      B                      C                      D</p>	
5	<p>Quale fra i seguenti solventi scioglie meglio un soluto ionico?</p> <p>A. <math>\text{CCl}_4</math>    B. <math>\text{CH}_3\text{OH}</math>    C. <math>\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3</math>    D. <math>\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3</math></p>	
6	<p>Scrivere il prodotto (o i prodotti) principale/i della seguente reazione :</p>  <p style="text-align: center;">A                      B                      C                      D</p>	

7	<p>Indicare il/i prodotto/i della seguente reazione</p>  <p>A) una miscela di 1 e 2 B) una miscela di 2 e 3 C) solamente 2 D) solamente 3</p>	
8	<p>Le reazioni di sostituzione nucleofila di tipo S<sub>N</sub>1</p> <p>A) Causano l'inversione dello stereocentro che subisca l'attacco B) Sono reazioni monomolecolari, coinvolgono una singola molecola che reagisce con sé stessa C) Sono favorite da solventi polari, che stabilizzano il carbocatione intermedio D) Generano carbocationi che non possono trasporre perché subiscono immediatamente l'attacco del nucleofilo</p>	
9	<p>Quanti carboni primari ci sono nel 2,5-dimetil-cicloesanoone?</p> <p>A) Nessuno B) Un C) Due D) Tre</p>	
10	<p>Quale tra i seguenti alcheni è il meno reattivo in una reazione di idratazione acido-catalizzata?</p>  <p>A B C D</p>	
11	<p>Indicare il carbocatione più stabile:</p>  <p>A B C D</p>	
12	<p>Quale fra le seguenti molecole possiede solo idrogeni secondari?</p>  <p>A B C D</p>	
13	<p>Quale fra i seguenti composti reagisce efficacemente come elettrofilo?</p> <p>A) HBr B) CH<sub>3</sub>Br C) CH<sub>3</sub>OH D) (CH<sub>3</sub>)<sub>4</sub>N<sup>+</sup></p>	
14	<p>Individuare il prodotto della reazione indicato dalle frecce curve</p>  <p>A B C D</p>	
15	<p>Quale fra i seguenti reagenti può essere impiegato per effettuare la seguente trasformazione in un singolo passaggio?</p>  <p>A) PBr<sub>3</sub>    B) acido cromico    C) una base forte (NaNH<sub>2</sub>)    D) una miscela acqua/alcol</p>	

## Simulazione\_6

16	<p>Quale è il prodotto della seguente reazione?</p> <div style="text-align: center;">  <p>1. <chem>c1ccccc1[Mg]Br</chem> 2. <chem>H3O+</chem></p> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> A</div> <div style="text-align: center;"> B</div> <div style="text-align: center;"> C</div> <div style="text-align: center;"> D</div> </div>	
17	<p>Qual'è l'isomero più stabile del <i>trans</i>-1,4-dimetilcicloesano?</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> 1 A</div> <div style="text-align: center;"> 2 B</div> <div style="text-align: center;"> 3 C</div> <div style="text-align: center;"> 4 D</div> </div>	
18	<p>Mettere in ordine di acidità decrescente i seguenti composti</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"><chem>CH4</chem> <b>1</b></div> <div style="text-align: center;"> <b>2</b></div> <div style="text-align: center;"><chem>NH3</chem> <b>3</b></div> <div style="text-align: center;"><chem>H2</chem> <b>4</b></div> </div> <p>A) 1 &gt; 2 &gt; 4 &gt; 3                      B) 4 &gt; 3 &gt; 2 &gt; 1 C) 2 &gt; 3 &gt; 1 &gt; 4                      D) 2 &gt; 1 &gt; 4 &gt; 3</p>	
19	<p>Quanto vale l'energia (Kcal/mol ) di una interazione <i>gauche</i> nel butano?</p> <p>(A) 1.3 (B) 0.9 (C) 4.0 (D) 20</p>	
20	<p>Indicare quale dei seguenti carbocationi non può trasporre</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> A)</div> <div style="text-align: center;"> B)</div> <div style="text-align: center;"> C)</div> <div style="text-align: center;"> D)</div> </div>	
21	<p>Indicare la pKa del metanolo</p> <p>A) 4.5 B) 50 C) 16 D) 25</p>	
22	<p>Quali composti tra quelli indicati rappresentano una coppia di enantiomeri?</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> I</div> <div style="text-align: center;"> II</div> <div style="text-align: center;"> III</div> <div style="text-align: center;"> IV</div> </div> <p>A) I,II B) II,III C) III,IV D) II,IV</p>	

23	<p>Quale tra le seguenti strutture rappresenta il composto (E)-3,6-dicloro-6-metil-3-eptene?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> </div>	
24	<p>Indica quale tra le seguenti molecole è achirale/meso</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> </div>	
25	<p>Quale tra i seguenti composti è il (R)-3-esanolo?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> </div>	
26	<p>Qual'è il composto più reattivo in una reazione S<sub>N</sub>2</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> </div>	
27	<p>Quale tra i composti indicati ha un sistema coniugato?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> </div>	
28	<p>Quale dienofilo reagisce con l'1,2-butadiene come indicato?</p> <div style="text-align: center; margin-bottom: 10px;">  </div> <p>A) Acido (Z)-2-bromo-2-butenoico      B) Acido (E)-2-bromo-2-butenoico          C) Acido (Z)-3-bromo-2-butenoico      D) Acido (E)-3-bromo-2-butenoico</p>	
29	<p>Ordina i seguenti alcheni dal più stabile al meno stabile</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-bottom: 10px;"> <div style="text-align: center;">  <p>1</p> </div> <div style="text-align: center;">  <p>2</p> </div> <div style="text-align: center;">  <p>3</p> </div> <div style="text-align: center;">  <p>4</p> </div> </div> <p>A) 2&lt;1&lt;3&lt;4          B) 3&lt;2&lt;4&lt;1          C) 1&lt;2&lt;3&lt;4          D) 2&lt;3&lt;4&lt;1</p>	
30	<p>Indica il miglior nucleofilo in un solvente aprotico?</p> <p style="text-align: center;">(A) fluoruro    (B) bromuro    (C) cloruro    (D) ioduro</p>	