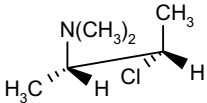
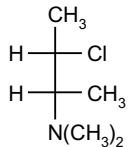
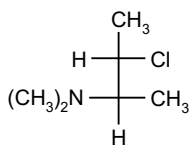
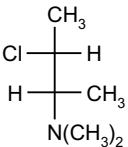
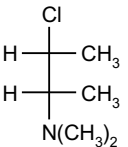
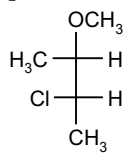
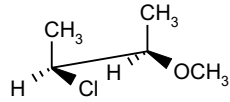
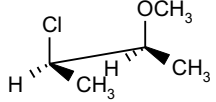
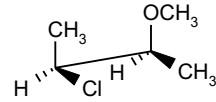
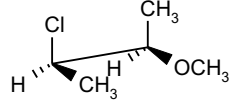


EXERCISE TEST No. 1

1.	Indicate which molecule has a dipole moment. (1) methane; (2) ethyne. A) 1 = Yes; 2 = Yes. C) 1 = No; 2 = Yes. B) 1 = Yes; 2 = No. D) 1 = No; 2 = No.
2.	Indicate which compound can form hydrogen bonds with water. (1) CH ₃ CO ₂ H; (2) (CH ₃) ₂ NH. A) 1 = Yes; 2 = Yes. C) 1 = No; 2 = Yes. B) 1 = Yes; 2 = No. D) 1 = No; 2 = No.
3.	Indicate which statement is correct.. (1) Alkanes contain only strong sigma bonds.; (2) The electronegativities of C and H are very different; H is the negative pole. A) 1 = Yes; 2 = Yes. C) 1 = No; 2 = Yes. B) 1 = Yes; 2 = No. D) 1 = No; 2 = No.
4.	Indicate Newman's projection that corresponds to the following Fischer projection. <div style="text-align: center;"> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <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>
5.	Indicate the molecular formula of LSD. <div style="text-align: center;"> </div> A) C ₂₀ H ₂₇ N ₃ O. B) C ₂₀ H ₂₅ N ₃ O. C) C ₁₉ H ₂₅ N ₃ O. D) C ₂₁ H ₂₅ N ₃ O.
6.	Indicate the hybridization of carbon atom 1 and the CN bond angle in ethanenitrile. A) sp ² , 180°. B) sp, 180°. C) sp ² , 120°. D) sp ³ , 109°.

7.	<p>Indicate Fischer's projection that corresponds to the following trestle structure.</p>  <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <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>
8.	<p>Indicate a compound that, in its most stable conformation, does not have all its carbon atoms on the same plane.</p> <p>A) <i>cis</i>-2-Butene. B) Butano. C) Benzene. D) Ciclopropano.</p>
9.	<p>Indicate which trestle projection corresponds to the following Fischer formula.</p>  <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <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>