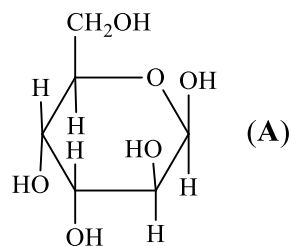
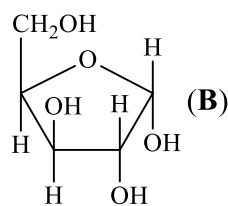


**Marks**  
**6**

- Consider the following two monosaccharides, (A) and (B).



$\beta$ -D-altropyranose



$\alpha$ -D-xylofuranose

Draw Fischer projections of the open chain forms of (A) and (B).

<p>(A)</p> $  \begin{array}{c}  \text{CHO} \\    \\  \text{HO} - \text{C} - \text{H} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{CH}_2\text{OH}  \end{array}  $	<p>(B)</p> $  \begin{array}{c}  \text{CHO} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{HO} - \text{C} - \text{H} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{CH}_2\text{OH}  \end{array}  $
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Draw the major organic product of the reaction of D-altropyranose with the following reagents.

<p>1. <math>\text{NaBH}_4</math>    2. <math>\text{H}^{\oplus} / \text{H}_2\text{O}</math></p> $  \begin{array}{c}  \text{CH}_2\text{OH} \\    \\  \text{HO} - \text{C} - \text{H} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{CH}_2\text{OH}  \end{array}  $	<p><math>[\text{Ag}(\text{NH}_3)_2]^{\oplus} / \text{OH}^{\ominus}</math></p> $  \begin{array}{c}  \text{CO}_2^{\ominus} \\    \\  \text{HO} - \text{C} - \text{H} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{H} - \text{C} - \text{OH} \\    \\  \text{CH}_2\text{OH}  \end{array}  $
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