**Learning Outcome**
Explain and demonstrate proper use of the microscope in viewing tissue sections of selected body organs, including the appropriate magnification power and focus.

**Method of Assessment**
Exam question

Suppose you have been asked to lead a session for reviewing the use of the microscopes in the anatomy lab. Briefly describe the proper way to adjust focus and change objective lenses to view a slide at 400X total magnification. Explain how to calculate total magnification. Explain how to convert mm to µm. (5 pts.)

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<th>SCORE</th>
<th>CRITERIA</th>
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| 5 (full credit) | • Present step-wise description of microscope use, beginning with 4X objective lens. Appropriate focus control is included in the description. Microscope parts are correctly identified and their uses stated.  
• Explanation of total magnification and how it is calculated includes identifying the lens magnification powers that are multiplied together.  
• Explanation of converting mm to µm includes a description of the relationship between the units. |
| 4 | • Description of microscope use presented in a step-wise fashion, starting with the 4X objective lens and coarse focus control. Description may omit naming all relevant microscope parts.  
• Explanation for calculating total magnification may fail to identify the source of the 10X factor.  
• Explanation for converting mm to µm may omit the description of the relationship between the units. |
| 3 | • Description of microscope use is not presented in step-wise fashion, microscope parts may not be identified or are incorrectly identified. Focus controls used may not match the objective lens power.  
• Explanation for calculating total magnification presented as an equation only—no description or explanation given.  
• No explanation for conversion of mm to µm—presented as an equation only. |
| 2 | • Description of microscope use is vague, does not identify or incorrectly identifies parts of the microscope.  
• Calculation of total magnification is presented as an equation only. No explanation is given or the explanation is incorrect.  
• Conversion of mm to µm is presented as an equation only or is incorrect. |
| 1 | • Description of microscope use is vague or incorrect  
• No explanation for calculating total magnification or information provided is incorrect  
• No explanation for converting mm to µm or information provided is incorrect |
| 0 | • No information provided |