

## Technological Advances of the Microscope: 1.5 pg. 17-18 Science Probe 8 Textbook

Neatly answer the following questions in full Sentences:( 12 marks)

1. When was the single lens invented and by whom?( 2 marks)
2. Pertaining to the Compound Microscope what must be done to make images larger?( 1 mark)
3. As lenses become thicker what happens to the images they produce? (1 mark)
4. Because of compound light microscope limits, what is the maximum magnification that can be done? ( 1 mark)
5. What was invented that made seeing details of a human cell at greater magnification?( 1 mark)
6. What magnifications are possible with the transmission electron microscope?(1 mark)
7. How does an electron work compared to a light microscope?(2 marks)
8. What are the two major limitations of transmission electron microscopes?( 2 marks)
9. What is the benefit of the scanning electron microscope?( 1 mark)