AICE Biology Guided Reading: Chapter 16, Part 1 Meiosis and Intro to Genetics

***Directions:*** *Please answer all questions on a separate sheet of paper. You may handwrite (NEATLY) in blue or black ink or type your answers. NO FRINGE! Complete these questions by Monday, October 23, 2017. This assignment is worth 20 points, and individual point values are located in parentheses after each question. (Note-we will cover the chapter sections on spermatogenesis and oogenesis during our unit on human reproduction.)*

1. Answer SAQ questions 16.1-16.3 as you read. (3)

2. What are homologous chromosomes and how might they be different from one another? (2)

3. Differentiate between asexual and sexual reproduction. (2)

4. Differentiate between haploid and diploid numbers following meiosis. (2)

5. Explain, using diagrams and drawings as well as words, what happens each in Meiosis I and   
 Meiosis II. Compare and contrast each process with mitosis at the end of that cycle. (5)

6. What is genetics and how does genetic assortment occur in offspring as compared to parents?   
 (2)

7. Define “allele” and explain how varying alleles are significant. (2)

8. Differentiate between genotype and phenotype, explaining how one is dependent on the other.   
 (2)