United International University

School of Science and Engineering



Class Test 3; Year 2021; Semester: Summer

Course: BIO 3105; Title: Biology for Engineers, Section: A

Upload instruction: RENAME pdf file as "Bio3105_A_ID"

- 1 Show pictorial view of the differences, as well as similarities between Metaphase and Metaphase 5+5 I. Comment on the genetic variations that can be introduced via Metaphase I.
- 2 Suppose you have Persian cat with a variation of dark brown eye, which is a dominant trait, and 5+5 another one of light brown eyes. In the second generation what would be the percentage of dark brown eyes?

If you had the genotype ratio of pure dark brown, mixed dark brown, and pure light brown to be 1:2:1, can you trace the parents' traits?