Supplemental Test Items to accompany OpenStax College *Concepts of Biology*. Note that not all chapters of OpenStax College *Concepts of Biology* have accompanying test items. Building on the community-oriented nature of OpenStax College resources, we invite you to submit items to be considered for future inclusion.

**Chapter 07: The Cellular Basis of Inheritance**

1. In one statement, what is sexual reproduction? (Outcome #IIIa) (DOK 1)
2. The production of two haploid cells, one from each of two parents, and the subsequent fusion of two haploid cells to form a single, unique diploid cell.\*
3. The production of two diploid cells, one from each of two parents, and the subsequent fusion of two diploid cells to form a single, unique tetraploid cell.
4. The production of two haploid cells, one from each of two parents, and the subsequent fusion of two diploid cells to form a single, unique aneuploid cell.
5. A cell that has only one set of chromosomes and thus, one set of genes is said to be what? (Outcome #IIIa) (DOK 1) (Paired Item 1)
6. diploid
7. haploid\*
8. monoploid
9. A cell that is said to be haploid has (Outcome #IIIa) (DOK 1) (Paired Item 2)
10. two sets of chromosomes.
11. one set of chromosomes.\*
12. an abnormal set of chromosomes.
13. Fertilization is a process by which (Outcome #IIIa) (DOK 1)
14. diploid cells divide to become haploid cells.
15. cells receive a nutrient-rich solution from the blood.
16. two cells, each from a different individual, unite to form one new cell.\*
17. Which of the following is not a main category of sexual life cycle in multicellular organisms? (Outcome #IIIa) (DOK 1)
18. chiasma-dominant\*
19. diploid-dominant
20. alternation of generations
21. A gametophyte is a what? (Outcome #IIIa) (DOK 1)
22. a haploid fungi spore
23. a haploid multicellular plant\*
24. a haploid animal gamete
25. Meiosis reduces the diploid number of chromosomes by half to prevent the number from \_\_\_\_ after sexual reproduction. (Outcome #2) (DOK 2)
26. increasing\*
27. decreasing
28. staying the same