MEIOSIS CARD REVIEW ANSWER KEY

1. meiosis
2. polar bodies
3. synapsis
4. D. make gametes (A-C are reasons to do mitosis)
5. tetrad
6. crossing over
7. Prophase I
8. Prophase I
9. Anaphase I
10. 4 different 1n
11. spermatogenesis
12. independent assortment
13. asexual
14. Self digest using apoptosis
15. Don’t need a partner; make lots of offspring fast
16. Crossing over, segregation, independent assortment
17. somatic
18. diploid
19. gametes
20. oogenesis
21. Haploid (1n)
22. Interphase II
23. mitochondria
24. lysosomes
25. ovary or testes
26. Provides variety; allows species to adapt to changes in environment; foundation for evolution
27. segregation
28. All cytoplasm ends up in one cell to provide best start for growing baby
29. haploid
30-32.

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| MITOSIS | MEIOSIS |
| Makes cells that are identical to parent and each other | Makes cells that are different from parent and each other |
| Makes 2n diploid cells | Makes 1n haploid cells |
| Makes 2 daughter cells | Makes 4 daughter cells |
| Makes somatic cells | Makes gametes |
| Used for growth; repair injuries;replace worn out cells | Used for sexual reproduction |
| Happens in all kinds of body cells | Happens only in ovary/testes cells |
| NO synapsis/crossing over | Synapsis/crossing over in Prophase I |
| NO segregationNO independent assortment | Segregation/Independent assortment at Anaphase I |
| Copy DNA every time cell divides | Divide twice; copy DNA onceskip Interphase II |
| NO genetic recombination | Genetic recombination |