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 segregation NO independent assortment | Segregation/Independent assortment at Anaphase I |
| Copy DNA every time cell divides | Divide twice; copy DNA once skip Interphase II |
| NO genetic recombination | Genetic recombination |