**Sexual Reproduction Study Guide**

1. Compare Asexual to Sexual Reproduction in terms of number of parents, speed, genetic variation.
2. What is the end result of Meiosis? How is this different from mitosis?
3. Compare gametes to somatic cells in terms of how they are made and chromosome number. Give an example of each.
4. Define haploid and diploid number. Give an example of a cell for each.
5. Describe Genetic Diversity and why it is a good thing.
6. Name three processes in sexual reproduction that contribute to genetic diversity.
7. Define: allele, homozygous, heterozygous, dominance, recessive, genotype, phenotype.
8. What is a hermaphrodite? Give an example of one. What is the advantage of being one? What strategies do they use to avoid self-fertilization. Why would they want to limit self fertilization?
9. Compare advantages and disadvantages of Internal and External Fertilization in terms of number of offspring, safety, parental burden, environment, special requirements.
10. What are three main ways a zygote can develop? Give an example of an organism for each one.
11. Name the three main parts of a seed.
12. What are the similar structures in an egg?
13. What is the differences between placental mammals, monotremes and marsupials? Give an example of each.
14. Be able to name all the structures of the flower, know their functions and label a diagram.

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