**Clone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Examples:**

1. **An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ egg is taken from an animal, and the egg’s \_\_\_\_\_\_\_\_ is removed.**
2. **The \_\_\_\_\_\_\_\_\_\_\_\_\_ of a cell from the animal to be cloned is \_\_\_\_\_\_\_\_\_\_\_\_\_ into the egg.**
3. **The egg is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and, if the procedure is successful, the egg will begin \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
4. **After the embryo grows for a few days, it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ into a female.**

**What are the advantages and disadvantages associated with cloning?**

**Genetic Engineering: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Recombinant DNA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **A \_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ with the gene are cut with the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
2. **The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the plasmid and the foreign gen match.**
3. **The plasmid and the foreign gene are \_\_\_\_\_\_\_\_\_\_\_\_\_ together to form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Why are the sticky ends important for making recombinant DNA?**

**Transgenic organism: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Concerns associated with genetic engineering:**