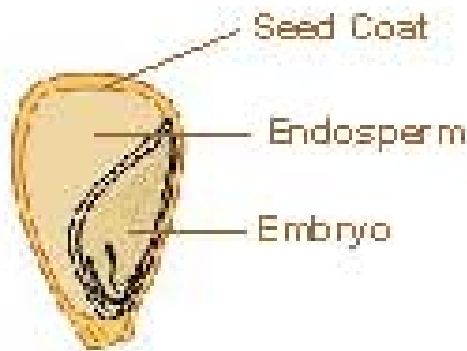

LAB 8 QUIZ **KEY**

MAIZE EMBRYO CULTURE AND CAULIFLOWER CULTURE

Name: _____

1. What are three reasons Orchids are often cultured in vitro? (why is embryo rescue often used for Orchid embryos?). [3pts]
 - a. **embryos often require a long time for mature seed to form after pollination.**
 - b. **it contains very little stored food**
 - c. **it is extremely fragile and easily killed**
 - d. **used to obtain seedlings from unripe seeds**
 - e. **Used to capture valuable hybrids.**

2. Label the pericarp, endosperm and the embryo on the following diagram: [3 pts]



3. Multiple choice: To produce shoots, cauliflower curd (the immature inflorescence/ flower structures) must undergo two changes including: [4pts]
 - a. **Dedifferentiation**
 - b. **Differentiation**
 - c. Changes in polarity
 - d. High auxin production

Bonus: How many times is the corn seed washed with sterile water?

TWICE.