**Botany**

**Put the following statements about plant reproduction in the correct order from 1 to 5:**

\_\_\_\_\_ 1. The surviving megaspore divides in three successive mitotic divisions to for six 1N cells and one 2 N cell.

\_\_\_\_\_ 2. One of the two sperms in the pollen tube enters the egg to form the zygote and the other combines with the two polar nuclei to form a 3N nucellus.

\_\_\_\_\_ 3. The megaspore mother cell undergoes meiosis and forms four 1N daughter cells.

\_\_\_\_\_ 4. Pollen begins germination on the stigma.

\_\_\_\_\_ 5. Pollen grain divides to form two sperm nuclei.

**True or False:**

\_\_\_\_\_ 1. Fruits derived from several to many ovularies include the raspberry and apple.

\_\_\_\_\_ 2. Compound fruits consist of a single ripened ovary.

\_\_\_\_\_ 3. Dehiscent fruits do not open at maturity and usually contain one or two seeds.

\_\_\_\_\_ 4. Indehiscent fruits split open along definite lines or points at maturity.

\_\_\_\_\_ 5. Accessory fruits are made up of ripened ovaries plus tissue from some other floral part.

**Fill in the blank:**

A fully developed embryo consists of:

1.

2.

3.

4.

**Matching**

|  |  |
| --- | --- |
| 1. Compound Corymb 2. Compound Cyme 3. Compound Umbel 4. Corymb | 1. Panicle 2. Raceme 3. Simple Cyme(Dichasium) 4. Umbel |

\_\_\_\_\_ 1. A branched corymb.

\_\_\_\_\_ 2. A branched cyme.

\_\_\_\_\_ 3. A branched structure with pedicellate florets.

\_\_\_\_\_ 4. A determinate, dichotomous structure with the pedicels of equal length.

\_\_\_\_\_ 5. A flat-topped or convex determinate or indeterminate structure with the pedicels arising from a common point.

\_\_\_\_\_ 6. A flat-topped or convex indeterminate structure with the pedicels arising from various positions.

\_\_\_\_\_ 7. An umbel with secondary umbels arising from the tips of the primary branches.

\_\_\_\_\_ 8. An unbranched, indeterminate structure with pedicellate florets.

**Matching**

|  |  |
| --- | --- |
| 1. Accessory Fruit 2. Aggregate Fruit 3. Multiple Fruit | 1. Parthenocarpic Fruit 2. Simple Fruit |

\_\_\_\_\_ 1. Single carple or several fused carpels.

\_\_\_\_\_ 2. Two or more separate carpels on one gynoecium.

\_\_\_\_\_ 3. Two or more gynoecia from two or more florets.

\_\_\_\_\_ 4. Fruit + extracarpellary floral parts.

\_\_\_\_\_ 5. Ovary develops, but no seeds formed.