

QUIZ 1: Terms/Concepts to Know

Vegetative Morphology-

I. Arrangement of leaves on stems - phyllotaxy

- A. alternate
- B. opposite
- C. whorled

II. Leaf terminology

A. Parts

- 1. blade (= lamina)
- 2. petiole
- 3. stipules
- 4. node/internode
- 5. petiolate versus sessile

B. Compound versus simple leaf

- 1. simple leaf
- 2. compound leaf
 - a. pinnate
 - b. palmate
 - c. trifoliate
 - d. singly versus doubly

C. Venation

- 1. pinnate
- 2. palmate
- 3. parallel

D. Shape

- 1. deltoid
- 2. elliptic
- 3. lanceolate

E. Margin

- 1. entire
- 2. toothed

F. Base

- 1. peltate
- 2. truncate
- 3. cordate
- 4. auriculate

G. Apex

- 1. acute
- 2. acuminate

H. Pubescence

- 1. glabrous
- 2. stellate
- 3. tomentose

Reproductive Morphology-FLOWERS

I. The Four Whorls:

- A. Sepals (pl. calyx)- CA
- B. Petals (pl. corolla)- CO
- C. Androecium (singular-Stamen)- A
 - 1. Filament
 - 2. Anther
 - 3. Pollen
- D. Gynoecium- G

1. Ovary (contains Ovules/seeds)
 2. Style
 3. Stigma
 4. Position
 - a. superior/hypogynous flower
 - b. superior/perigynous flower
 - c. inferior/epigynous flower
 - E. Receptacle (the point of attachment of the four whorls)
 - F. Symmetry
 1. actinomorphic
 2. zygomorphic
- II. Whorl Modifications
- A. Adnation (different whorls fuse)
 - B. Connation (parts in the same whorl fuse)
 - C. hypanthium
- III. Pistil vs. Carpel (*the Gynoecium is composed of one or more flask-shaped Pistils, each Pistil is composed of one or more Carpels*)
- A. monocarpic
 - B. syncarpic
 - C. apocarpic
 - D. how many carpels make up a given pistil? how many pistils in a given flower?
- IV. Placentation
- A. basal
 - B. axile
 - C. parietal
 - D. marginal
 - E. free-central

Reproductive Morphology-FRUITS

- I. Simple
 - A. Dry
 1. Dehiscent
 2. Indehiscent
 - B. Fleshy
- II. Aggregate
- III. Multiple

Reproductive Morphology-INFLORESCENCES

- I. Indeterminate
 - A. Spike
 - B. Raceme
 - C. Panicle
- II. Determinate