



APIACEAE (CARROT FAMILY)

Floral formula: _____

Aromatic herbs with hollow, furrowed stems, compound leaves with sheathing leaf bases, 5-merous often white or yellow flowers in compound umbels, and fruit a schizocarp.

1. Four common edible members of the Apiaceae (not including those below) are

a) plants eaten in substantial amounts _____ and _____;

b) plants used mainly as spices: _____ and _____.

2. What is the special relationship between Socrates and the Apiaceae, and name the plant that had such a strong influence on him.



ASTERACEAE (ASTER, SUNFLOWER OR COMPOSITE FAMILY)

Floral formula: _____

Herbs and shrubs with involucrate heads of small, 5-merous, sympetalous flowers. The calyx is represented by a pappus, a series of bristles, hairs or scales. Stamens 5, united by their anthers. Gynoecium bicarpellate, inferior, producing a single achene at maturity.

1) What was chicory used for during World War II?

2). State two medicinal uses of Yarrow, one of which is a legendary instance of its use.



BRASSICACEAE (MUSTARD FAMILY)

Floral formula: _____

Herbs with an acrid taste; flowers of 4 sepals, 4 petals, 6 stamens (4+2), and a silique or silicle.

1. The original family name for the Brassicaceae, and what it signified are:

name: _____ significance: _____.

2. Four edible plants found in the mustard family, widely cultivated, particularly in cooler climates are:



FABACEAE (PEA, BEAN OR LEGUME FAMILY)

Floral formula: _____

Herbs, shrubs, vines and trees with alternate, stipulate, compound leaves. Flowers [actinomorphic or] zygomorphic, 5-merous, unicarpellate; fruit a legume or loment.

1) A special feature of the roots of many legumes, of benefit to soil fertility is:

2) Three common foods from this extremely important family (rivalling Poaceae in world economy):

_____, _____, and _____



LAMIACEAE (MINT FAMILY)

Floral formula: _____

Herbs and shrubs with square stems, opposite leaves, a "minty" aroma, and 5-merous zygomorphic flowers with 2 or 4 stamens, and a deeply 4-lobed ovary with a gynobasic style; fruit 4 nutlets.

1) Four common spices or herbs from the Lamiaceae.
(Old Simon and Garfunkel song "Scarborough Fair" may help for 3 of them.)

2) Horehound is used for _____.



(mostly former) LILIACEAE (LILY FAMILY)*
(* actually several showy monocot families formerly grouped together in one family)

Floral formula: _____

Perennial herbs from bulbs, rhizomes or corms. Leaves linear, sometimes sword-shaped and fibrous. Flowers with a conspicuous 6-parted petaloid perianth, 6 (3) stamens and a superior or inferior trilocarpellary ovary. Fruit a capsule or berry.

1) Name 3 food, spice or flavoring plants from the Liliaceae.

2) Explain how colchicine (derived from meadow saffron) is used to produce larger plants.



RANUNCULACEAE (BUTTERCUP FAMILY)

Floral formula: _____

Herbs with compound leaves, sheathing leaf bases. Flowers with numerous stamens and carpels, typically actinomorphic, but zygomorphic in Delphinium and Acontium.

1) Three well-known ornamental members of the Ranunculaceae are:

_____, _____, and _____.

2) A member of the Ranunculaceae that has become extremely rare because of over-collecting for its reputed medicinal value. The plant, the part of the plant employed, and 2 ailments served by it are:

The plant: _____ The part: _____

Ailment 1: _____ Ailment 2: _____



ROSACEAE (ROSE FAMILY)

Floral formula: _____

Stipulate herbs, shrubs, & trees with 5-merous flowers, a hypanthium, many stamens.

1) The economic impact of the ROSACEAE is enormous because of their fruits. Three 3 types of fruits:

Fruit type 1 _____; examples: _____ & _____

Fruit type 1 _____; examples: _____ & _____

Fruit type 1 _____; examples: _____ & _____

2) The fruits of wild roses have a special name, and a beneficial substance that helped native Americans.

Fruit: _____; substance _____; benefit: _____.