**Key I: Perianth Clearly Differentiated into Calyx and Corolla: Petals separate**

1. Corolla strongly irregular....................................................................................................2

Corolla regular or slightly irregular.....................................................................................9

1. Ovary inferior................................................................... **Onagraceae** (Evening Primrose)

Ovary superior....................................................................................................................3

1. Leaves deeply lobed, dissected or compound....................................................................4

Leaves entire or toothed, simple........................................................................................7

1. Calyx petal-like; upper sepal spurred at base...........................**Ranunculaceae** (Buttercup)

Calyx **NOT** as above............................................................................................................5

1. Calyx of tiny sepals; petals slightly fused at tip............................**Fumariaceae** (Fumatory)

Calyx 0f 4 – 5 separate or united sepals.............................................................................6

1. Sepals 4; petals 4.............................................................................**Capparaceae** (Allthorn)

Sepals 5; petals 5 or fewer...........................................................................**Fabaceae** (Pea)

1. Sepals 3, these 1- 3.5 mm long (two additional sepals longer and petal-like)...........................................................................................**Polygonaceae** (Buckwheat)

Sepals 4 – 6, usually 5.........................................................................................................8

1. Sepals united below.....................................................................................**Fabaceae** (Pea)

Sepals separate or nearly so; stamens 5.................................................**Violaceae** (Violet)

1. Ovary inferior or partially inferior.....................................................................................10

Ovary superior..................................................................................................................13

1. Petals 4; stamens 8........................................................................ **Onagraceae** (Primrose)

Petals 5.............................................................................................................................11

1. Sepals or calyx lobes 2; lobes 2; stamens 8 – 20 or more ...........**Portulacaceae** (Purslane)

Sepals or calyx lobes 5 or lacking......................................................................................12

1. Flowers umbels ......................................................................................**Apiaceae** (Carrot)

Flowers otherwise............................................................................................................13

1. Leaves mostly or all opposite, or part of them whorled..................................................14

Leaves mostly or all alternate, subopposite or basal.......................................................16

1. Leaves compound or deeply lobed..................................................................................15

Leaves simple, entire Petals narrowed to a petiole-like base.................................................................................**Malpighiaceae** (Barbados Cherry)

1. Leaves compound.........................................................................**Zygophyllaceae** (Caltrop)

Leaves deeply lobed......................................................................**Geraniaceae** (Geranium)

1. Flowers unisexual..........................................................................**Euphorbiaceae** (Spurge)

Flowers perfect.................................................................................................................17

1. Petals 3 or 4......................................................................................................................18

Petals 5 or sometimes more.............................................................................................20

1. Petals 3; sepals 3 or 5....................................................... **Commelinaceae** (Morning Glory)

Petals 4; sepals 4..............................................................................................................19

1. Fruits strongly 2 lobed..............................................................................**Rutaceae** (Citrus)

Fruit **NOT** as above........................................................................**.Brassicaceae** (Mustard)

1. Stamens united by their filaments into tube around the style; stamens more than 5..........................................................................................................**Malvaceae** (Mallow)

Stamens separate or filaments united below..................................................................21

1. Leaves palmately lobed; petals white, pink or purple........................................................................................**.Geraniaceae** (Geranium)

Leaves entire....................................................................................................................22

1. Leaves compound............................................................................................................23

Leaves simple, entire........................................................................................................24

1. Style 1..........................................................................................................**Fabaceae** (Pea)

Style 5........................................................................................**Oxalidaceae** (Wood Sorrel)

1. Sepals or calyx lobes 2; styles 3...................................................**Portulacaceae** (Purslane)

Sepals or calyx lobes 5 – 6................................................................................................25

1. Stamens 10 or more Flowers solitary.......................................................................................**Oxalidaceae** (Wood Sorrel)

Stamens fewer than 10.....................................................................................................26

1. Styles 1...........................................................................................**Lythraceae** (Loosestrife)

Styles 5.........................................................................................................**.Linaceae** (Flax)