

LABORATORY MANUAL

for

5-Year Integrated (B.Sc. - M. Sc.) Botany

PLANT TAXONOMY



DEPARTMENT OF BOTANY
UNIVERSITY OF KASHMIR, NORTH
CAMPUS, DELINA, BARAMULLA

Taxonomic Keys for proper identification of plant species

- 1+ Inflorescence verticillate ----- 2
- Inflorescence capitate or spicate ----- 3
- 2+ Leaves linear-oblongate and gradually decreasing in size toward the apex of the blooming stem, usually fruit pennyroyal- or peppermint-odoured ----- *Species A*
- Leaves ovate to suborbicular and not decreasing in size toward the apex of the blooming stem, usually fruit lavender-odoured ----- *Species B*
- 3+ Inflorescence capitate----- 4
- Inflorescence spicate ----- 5
- 4+ Leaves linear-oblongate, entire with thickened edge more or less revolute, calyx lobes deltoid-ovate to broadly triangular ----- *Species C*
- Leaves ovate-suborbicular, crenate with thin edge, calyx lobes narrowly triangular to subulate, -
----- *Species D*
- 5+ Leaves rugose, ovate to suborbicular ----- 6
- Leaves smooth, oblong-lanceolate to ovate-lanceolate ----- 7
- 6+ Leaves all sessile, pubescent with scattered dendroid hairs on abaxial surface -----
----- *Species E*
- Leaves sessile to sub-sessile, glabrous ----- 8
- 7+ Leaves sessile, oblong-lanceolate, base rounded to shallowly cordate, pedicel up to 2 mm, calyx 5-veined ----- *Species F*
- Leaves petiolate, ovate to ovate-lanceolate, base oblique, pedicel 0.5–1.0 mm, calyx 8–10-veined ----- *Species G*
- 8+ Inflorescence slender, up to 4.0 cm, interrupted; plants shiny green, fertile with linear-subulate bracts----- *Species H*
- Inflorescence robust; stems and leaves with indumentum----- 9
- 9+ Plants purplish to dark green, indumentum thin, plants sterile ----- *Species I*
- Plants not purplish to dark green, indumentum thick, plants fertile ----- *Species J*