UNIT-IV Family: Brassicaceae The Mustard family Systematic position Phaneurgams Dicoty dedons Polypetale Thalmifloued facilitales Brassicaceal Distribution & Lamily objected & 1 1444 350 genera & 2500 species

regetative characters Habit 6 - annual (2005 NOT), permial heups. Root : - Tap root system 4141 stem :- erect, beranched, 2 strong herbaceous, cylinderical Solid, node and internode 31 divide होता है Leaf 8 — Simple 31-1-340 Fi lexslipulated

petiolate, radical 4141 4187

leaf alternate 954 & 67217 Etc) &

241 reticulate (HTRASIAC) 121(112-418)

4141 4161 & Florial characters Employescence: recemose your on Eld & 1 and - and racem aus Conyond 21 4141 otter &

Flower & __ 31 2184 At ebracteate.

Agogeor pedicellate,
actino mouphic, 2ygomorphic as 17. 25 24

Bisexual, complete, hypogynous. Calyn : - 318199 sepats 4, polysepate
unbricate (a) (whools)
austivation. Carolla 6 - 4 petals polypetalous valuate aestriation Eld 8 flower Zygomorphic Eld El Androecium 6 - stamen 6 Et & SHAP 2 stomen diell Ede dui 4
2 stomen de Ed E siula

tetra dynamous Eld É fitament
ciodi Eld El anther bersifixued

d'ul bilobed Eld El Gynoecium & Bicaupillary

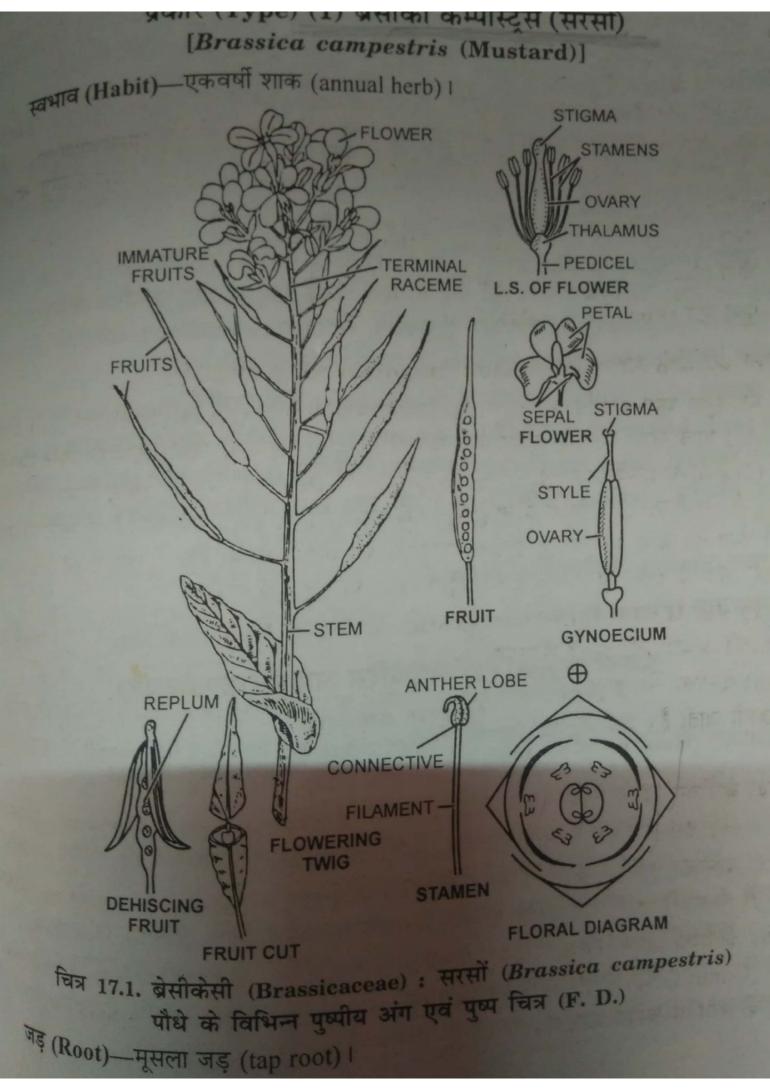
Syncaupoul, Bilacular

false septeim a joi a anico; Etai Ei

placentation parietal Etai E overy

superios Etai E styli Eist Stigma

Bilosed Etai E fruit : - Silique Floral formanda & Ebs & & K2+2 4



family Malvaceal The cotton family systematic position. phaningamous Dicetyledons Polypetalae Theilamiflocial Malvalis Maluaceal Vegetating chanacters

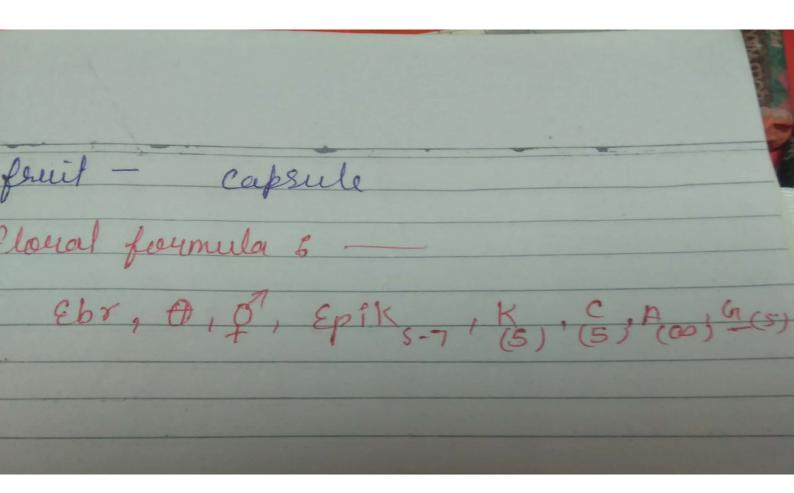
Herbit & July paratry 21100 &1

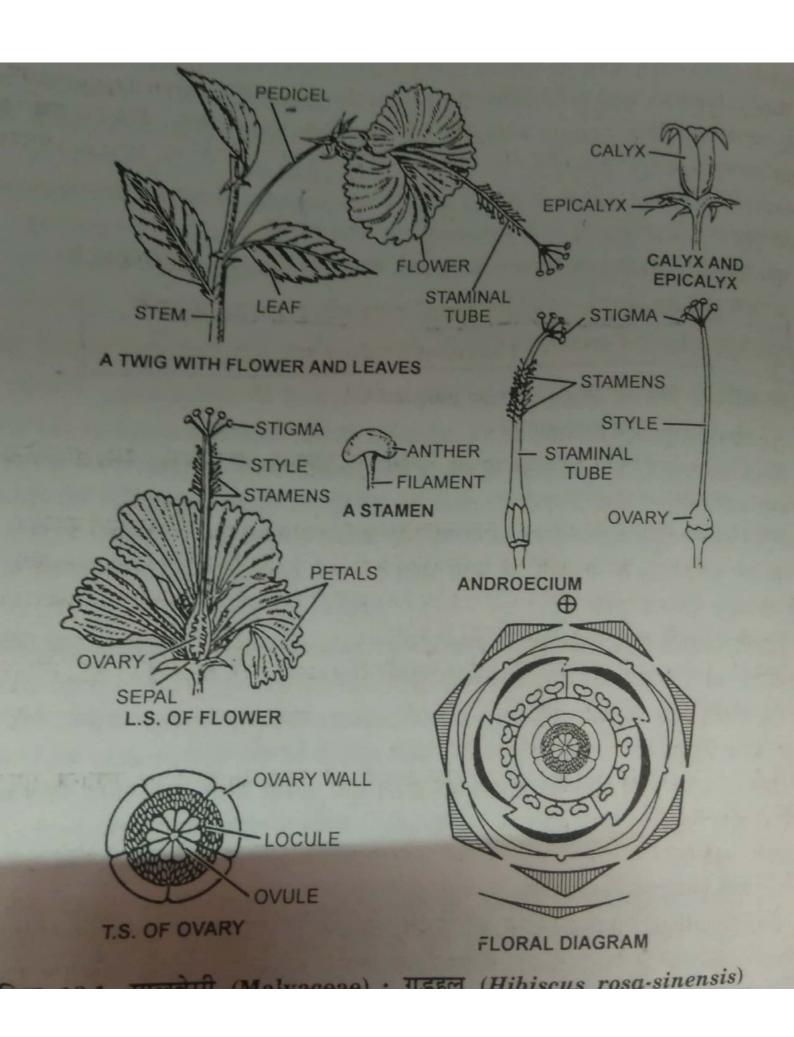
24 formity H 22 genera, 140 species

and 2141 &1 Root 6 - Top root system and branched. Stem 8 - Erect, 2110514 dut on 10014

The stellate haves 418 old El leaf 8 - Petiolate, simple, alternate stipulate palmate sype of Plonal chanacters Inflorescence: - Flower 914 solitary

flower: Actinonouplic, Biscouraf Bracteate, pedicellate, complete Hypogynous, kurtemenous, 5-7 ebracteati lurot epicalya ased il Epicalyn " 5-7 fall, ever green 5 calya, 24 bar die 14 ont clolyx 8 -Elclosia Valuate aestination Corolla 3 - 5 petals , polypetalous stammal tube present, tueisted aestination Andro ecium 6 - stomens Indefinite monoadelphous, onther filament atter mono monotherous eld E Superios, pententoular, and placentation Eld El steging fine lobed Eld El El suging overy hypogynous Eld El





II sem PAGE NO.: Family - Rutaceae The citeus family systematic position Phaneuogans Dicotyledons Polypetalae Disceflorales Rutaceal exi- citrus auxantium Vegetatine characters Root & - top root system, branched. Stim &- Except, breanched, woody, green Leaf 6- Petiolate, exstipulate, leaf alterna palmotely compound, petiole, winged smooth, will glands present Etc & 1

Sectionale veration 4741 other & 1

Inflacescence: - Ariellary umbellate cyn Flower : - Pedicellate (+1409a-d), 4789a7

21 F1848 3134964d, actino mouphing
Bisexual, Complete, pentamenous,
hubo aunques. calyx & 45 sepals, gamos epalous, green, valuate custination. cogalla: - 4-5 petals, polypelalous, oil gland impricate aestination Androceium à - 314021, stoners polyadelphon outhers là mi cory (Litherous) Gaods, 31-43(a) ea aper il pointed età E Gynoecium: — multicarpellary, Synlarpoul-multilocular, ovary superior oxile placeulation, style thick, of Sligma Capitate 6107 & 1

