**---------------------- ROOT ---------------------------------**

**ADVENTITIOUS ROOTS :**

**MODIFIED TAP ROOT:**

* Conical root – Carrot
* Fusiform root - Radish
* Napiform root - Turnip , Beet root
* Tuberous root - (Mirabilis) – 4 o'clock
* Nodulated root - Pea , Gram, Bean
* Pneumatophores - Rhizophora
* Fasciculated roots - Asparagus, Dahlia
* Вeaded / Moniliform - Vitis , Bitter gourd
* Tuberous adventitious roots - Sweet potato
* Stilt roots or Brace roots - Maize, sugarcane
* Prop roots – Banyan tree
* Climbing root – Money plant , Monstera Betel ,

Black Pepper .

* Foliar epiphyllous root – Bryophyllum
* Sucking or Haustorial root – Cuscuta ,Viscum

**---------------------------------- STEM -----------------------------------------------------**

**SUB-AREAL MODIFICATION**

**UNDERGROUND STEM:**

* Tuber – Potato
* Rhizome – Ginger , Tumeric , Banana
* Corm – Colocasia , Alocasia , Zaminkand
* Bulb – Onion , Garlic
* Runner – Cynodon , Oxalis
* Stolon – Jasmine , Peppermint
* Sucker – Mint , Pineapple , Banana, Crysanthemum
* Offset – Pistia , eichhornia

**AERIAL STEM:**

* Stem Tendril - Vitis , Passion flower, Gourds,

Pumpkin .

* Stem Throm – Bougainvillea , Citrus
* Phylloclade – Opuntia , Euphorbia, Cacti

**------------------------------------- LEAF --------------------------------------------------------**

* Sheath leaf base - Monocots.

**SIMPLE AND COMPOUND LEAVES**

* Simple leaf - Peepal , Banyan
* Compound Pinnate(by midrib) - Neem
* Compound Palmate(by petiol) - Silk cotton

**PHYLLOTAXY**

* Alternate Phyllotaxy- Mustard, Sunflower , china rose
* Opposite Decussate – Calotropis
* Opposite Superposed – Guava
* Whorled - Alstonia , Nerium
* Pulvinus leaf base – Legunes .
* Winged petiole – Citrus
* Swollen - Eichhornia

**STIPULES**

* Free Lateral – China rose
* Foliaceous – Pea
* Spiny – Zizyphus
* Tendrils – Smilax
* Ochreate - Polygonum

**MODIFICATION OF LEAVES**

* Leaf Tendril - Wild Pea
* Leaf spine – Opuntia , Cacti, Argemone
* Leaf Pitcher – Nepenthes , Dischdia
* Leaf Bladder - Utricularia
* Leaflet hook - Cat's nail (Bignonia)
* Phyllode - Australian acacia
* Leaflet tendril - Sweet pea, Garden pea

**----------------------------------- INFLORESCENCE --------------------------------------**

**RACEMOSE**

**AESTIVATION**

* Valvate – Calotropis
* Twisted – Ladyfinger, Hibiscus, cotton,

Malvacae , china rose .

* Imbricate - Cassia, gulmohar
* Vexillary - Реa Веan
* Quincuncial – Murraya

**PLACENTATION**

* Marginal - Pea Legumes
* Parietal – Argemone , Mustard
* Axile - China rose, Lemon , Tomato
* Central Free - Primrose , Dianthus
* Basal – Marigold , Sunflower
* Receme - Mustard
* Spike – grass
* Catkin – Mulberry
* Spadix – Maize
* Corymb – Cauliflower , candytuft ,

chandani , capsella .

* Umbel – Corriander , Fennel , Cumin
* Capitulum – Sunflower , marigold , zinnia

**CYMOSE**

* Helicoid – Drosera
* Soropioid – Atropia
* Biparous cyme – Jasmine , teak
* Multiparous cyme – Calotropis

**SPECIAL INFLORESCENCE**

* Cyathium – Euphorbia
* Verticillaster – Salvia , Ocimum
* Hypanthodium – Ficus , Fig , Peepal

**HYPOGYNOUS FLOWER –** Mustard , ChinaRose, Brinjal

**PERIGYNOUS FLOWER** - Rose, Plum, Peach

**EPIGYNOUS FLOWER** – Guava , Apple , Cucumber , ray florets of sunflower .

**Yashvi Modh**