Regions Of The Root

Region Of Maturation	No mitosis, root hair generate from this area
Region of Elongation	Cells of this zone gradually differentiate and mature
Region of Meristematic Activity	Cells are thin-walled, with dense protoplasm

Underground Stem Modifications

Corm	Yam, Colocasia
Bulb	Garlic, Onion
Stem Tubers	Potato, Chinese Artichoke

Inflorescence

Racemose	Mango, Neem, Gulmohar
Cymose	Jasmine, Calotropis, Acacia

Types of Fruits

True Fruits	Formed From Fertil-ization	Orange, Guava, Watermelon
False Fruits	Formed w/o Fertilization	Apple, Strawberry, Cashew
Simple Fruits	From Single Ovary	Orange
Aggregate Fruits	From Multiple Ovaries	Raspberry, Custard apple
Composite	From inflor-escence	pineapple, figs
Drupe Fruits	With a hard endocarp	

Modifications of The Root- Storage

Type	Examples
Conical	Carrot
Fusiform	Radish
Napiform	Beetroot, Turnip
Tuberous	Mirabilis

Phyllotaxy

Spiral	China Rose, Mustard, Sunflower
Opposite	Calotropis, Guava
Whorled	Alstonia

Position of Flower on Pedicel

Hypogynous	Superior	Brinjal, Mustard, China Rose
Perigynous	Half-Inferior	Plum, Rose, Peach
Epigynous	Inferior	Guava, Sunflower, Cucumber

Parts of a Dicot seed

Testa	Outer seed coat
tegmen (integument)	Inner seed coat
Hilum	Scar where seed was attached to the funicle
Coteledons	Gives germinating embryo nutrition
Plumule	Grows into shoot system
Radicle	Grows into root system
Epicotyl	Part where plumule is attached to the seed
Hypocotyl	Part where radicle is attached to the seed

Sub-aerial Stem Modifications

Trailers	*Euphorbia prostrata*
Runners	Grass, Strawberry
Stolons	Mint, Jasmine
Suckers	*Chrysanthemum*, Pineapple, Banana
Offsets	Water Hyacinth, Water Lettuce, Pistia

Modifications of the Leaf

Spines	Barbarrey, Acacia, Aloe Vera
Tendrils	Grapevines, Pea
Insectivorous Plants	Venus Flytrap, Pitcher Plant

Placentation

Marginal	Pea
Axile	China Rose, Tomato, Lemon
Parietal	Argemon, Mustard
Free Central	Primrose, Diathus
Basal	Marigold, Sunflower

Parts of a Monocot Seed

Seed Coat	Protects the seed
Aleurone Layer	Separates embryo from endosperm
Scutellum	Cotylendons
Plumule	Grows into shoot
Radicle	Grows into root
Coleoptile	Encloses Plumule
Coleorhiza	Encloses Radicle

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