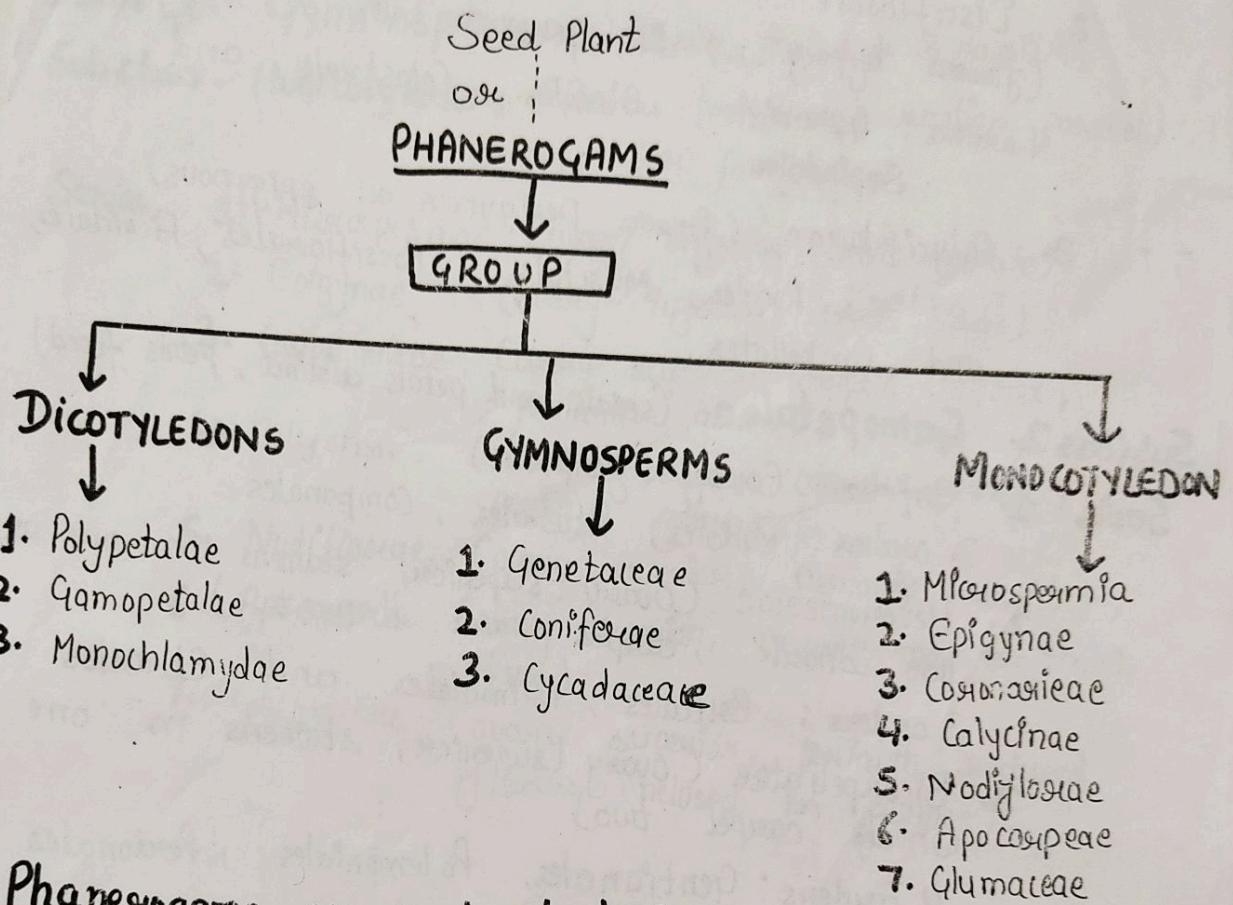


## BENTHAM AND HOOKER'S CLASSIFICATION



Phanerogams or seed plants :-

### Class. 1. Dicotyledons

(seed with 2 cotyledons, flowers - pentamerous or tetramerous,  
14 series, 25 orders, 165 families)

#### Subclass 1. Polypetalaee (sepals and petals distinct, petals free)

##### Series 1. Thalamiflorae

(flowers hypogynous, stamens many, disc absent)

6 orders: Ranales, Palearctiales, Polygalineae, Capparidaceae,  
Guttiferales and Malvales.

**2. Disciflorae**

(flowers hypogynous, disc present below the Ovary)

4 orders: Geriales, Olacales, Celastrales, and Sapindales.

**3. Calyciflorae:** (flowers perigynous or epigynous)

5 orders: Rosales, Myrtales, Poaceales, Ficoidales, and Umbellales.

**SubClass 2. Gamopetalae:** (sepals and petals distinct, petals fused)

**Series 1. Inferae (Ovary inferior)**

3 orders: Rubiales, Asterales, Campanales.

**2. Heteromerasiae (Ovary superior, stamens in one or two whorls, carpels more than two)**

3 orders: Boraginales, Psilotales and Ebenales

**3. Bicarpelatae (Ovary superior, stamens in one whorl, carpel two)**

4 orders: Gentianales, Polemoniales, Personales and Lomiales

**Sub Class 3. Monochlamydeae** (flowers, apetalous, perianth lacking or if present not differentiated into sepals and petals)

**Series 1. Curvemboyeae** (embryo coiled, ovule usually 1)

2. Multiovulatae aquatica (aquatic plants, ovules many)

3. Multiovulatae terrestres (terrestrial plants, ovules many)

4. Microembryaceae (embryo minute)

5. Daphnales (carpel 1, ovule 1)

6. Achlamydosporae (ovary inferior, unicellular ovules)

- 7.) Unisexuals (flowers unisexual)  
8. Ordines anomali (relationship uncertain)

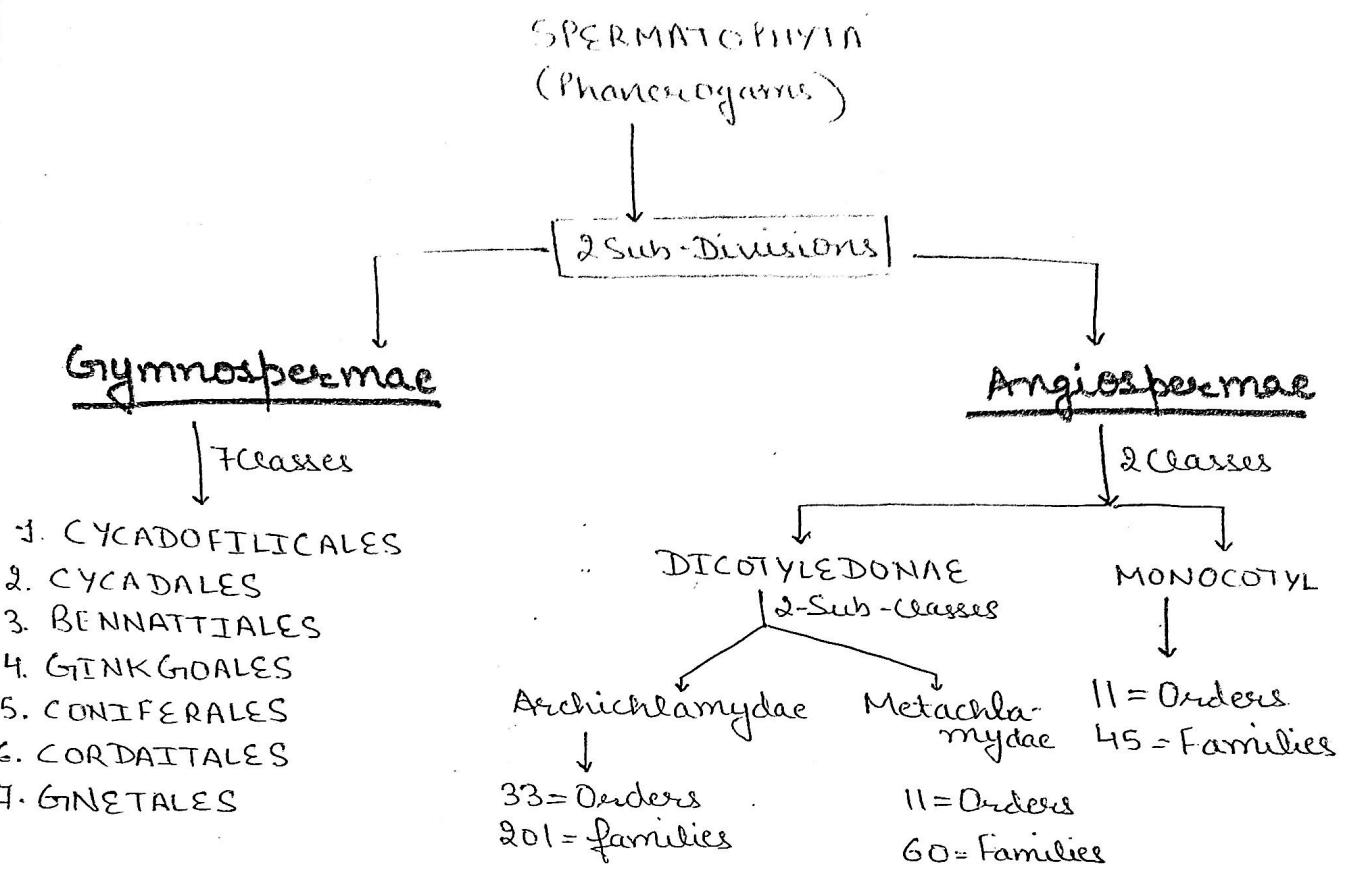
Class 2. Gymnospermae (ovules naked) 3 families

Sub class. Monocotyledons (flowers terminal, venation parallel)  
7 series, 34 families

Series

1. Microspermac (ovary inferior, seeds minute)
2. Epigynae (ovary inferior, seeds large)
3. Caenomiae (ovary superior, carpels united, perianth green)
4. Calycinae (ovary superior, carpels united, perianth green)
5. Nudiflorae (ovary superior, perianth absent)
6. Apocarpae (ovary superior, carpels more than 1, free)
7. Glumaceae (ovary superior, perianth reduced, flowers enclosed in glumes)

## ENGEL AND PRANTL CLASSIFICATION



## Plant Kingdom

Division 1.

3. Thallophytes

Division 11.

Division 12. .... Embryophyta Neophytogama

Subdivision 1. Bryophyta

Subdivision 2. Pteridophyta

Division 13.

..... Embryophyta Siphonogama

Subdivision 1. Gymnospermae

Subdivision 2. Angiospermae

Class 1. Monocotyledonae — 11 Orders, 45 families

Order 1. Pandanales (first family Pandanaceae)

Order 11. Microspermae (last family Orchidaceae)

Class 2. Dicotyledonae — 44 Orders, 258 families

Subclass 1. Archichlamydeae (Petals absent or free)

— 33 Orders, 201 families

Order 1. Verticillatae (family Casuarinaceae only)

Order 33. Umbelliflorae (last family Cornaceae)

Subclass 2. Metachlamydeae (Petals united)

— 11 Orders, 57 families

Order 34. Diapensiaceae (family Diapensiaceae only).

Order 44. Campanulatae (last family Compositae)