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Class : Deg. II (Subs.)

Group : A (Angiosperms Taxonomy)

Topic : Classification of Hutchinson

Lecture No. - 68

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Classification of Hutchinson :

Division III : Glumiflorae

Order 109 : Juncales

Families : (4)

406. Junaceae

407. Thurniaceae

408. Centolepidaceae

409. Restionaceae

Order 110 : Cyperales

Family (1) : 410. Cyperaceae

Order 111 : Graminales

Family (1) : 411. Gramineae

• Merits and Demerits of Hutchinson's System:

Merits :

- (1). It is based on the most logical interpretation of the theory that floral parts of angiosperms are the modified leaves.

- (ii) Angiosperms are monophyletic and evolved from hypothetical proangiosperms.
- (iii) Monocots have originated from dicots and dicots have originated from gymnosperms.
- (iv) The gymnosperms have separated from Dicot and monocot.

Demerits :

- (i) Hutchinson has considerably increased the number of orders and families. He has given 411 families, while Bentham and Hooker have recognized 202 families while Engler and Prantl have 280 families.
- (ii) The division of angiosperms into herbaceous and woody plants results in unnatural division of orders.
- (iii) The classification has not been universally recognized due to his fundamental principle that dicots have evolved in two directions, one from herbaceous Ranales and other from woody Magnoliales.
- (iv) The failure of explanatory reasons for the disposition of orders and in some cases, the families.

(Complete)