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 class : Deg- II (Hons.)
 Paper : III (Group - 'B')
 Topic : Family - Poaceae (Contd.)
 Lecture No. - 85
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Family : Poaceae (continued):

• Floral characters:

• Gynoecium:

The carpels are generally considered to number (3), reduced to 1 (according to some authors) by their fusion or by the suppression of 2.

The ovary is superior, unilocular with single ovule, basal placentation.

The styles usually number 2 (3 in bamboos, and 2 fused into 1 in maize, rarely 1). They may be terminal or lateral.

The stigmas are two, ~~and~~ feathery or papillate and branched.

• Fruit:

The fruit is a caryopsis (achene with pericarp completely united or adherent with the seed-coat) or rarely nut (*Dendrocalamus*) or berry (*Bambusa*).

• Seed:

This is albuminous or endospermic and containing a single cotyledon called scutellum, which is

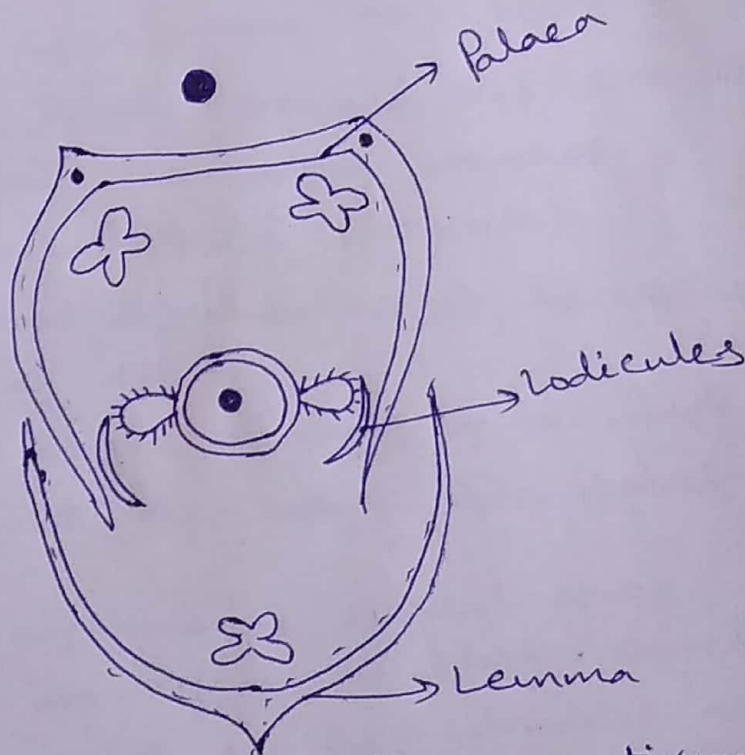
shield shaped and pressed against the endosperm.

Pollination by the wind is most common, Self-pollination occurs in few cases, as in wheat.

Floral formula :

$$\frac{\text{♂}}{\text{♀}} P_{0 \text{ or } 2} (\text{Lodicules}) A_{3 \text{ or } 6}^{(3)} \text{ or } 1$$

Floral Diagram :



(Floral diagram of Triticum aestivum)

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(continued. . .)