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Deptt. of Botany
claes: 12th
Unit: 1 (Sexual Reproduction)
chapter: Development ob Seed and fruit
Topic: Parthe nocarby
Lecture No 18
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in the design of the state of t
Parethenocarpy:
(lik. parthenos - Virgin; Karepos - bruit)
Production and development of reedless fruit
is called parthenocarpy.
· Mechanism of obtaining parthenocarpic
. Mechanism of obtaining parthenocarpic fruits is becoming increasingly important
because of three reasons:
ci) Seeds are irritants during eating of the
bruit.
Gis Processing of fourts by food industry
requires the removal of seeds which is
quite difficult. Therefore, seedless fruits
are preferred by food industry.
(iii) There is an increasing tendency to
good fruit bearing plants inside green
houses. Reliable insect pollinators
cannot be ensured in each and every
case '
· Parethenocarety is of two types, vegetative
and stimulative.
and pliminum.
Maharaza

. In regetative parthenocarpy, the seedless
bruits can develop even without the
stimulus of pollination reg, Pearer Fig etc.
In stimulative parthenocarpy, the stimulus
of pollination is required without the
actual process of fertilization or seed
retting, e.g., Grapes.
· A number of fruit varieties have been
altered genetically to undergo parthenocarpi
· Hormonal treatment enables flowers to
develop seedless fruits without the
stimulus of pollination.
. The two commonly used hormones in
parthenocouchy are auxins and gibberelling.
· Tomato produces reedless fruits it
treated with rurin while grape-vine forms
seedless prints on being treated with
gibberellin.
· Gibberelling are especially useful for
inducing parthenocarpy in pomes.
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