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Deptt. of Botany
class: 12th
Unit: 1 (Sexual Reproduction in Plants)
Chapter: Pollination (Continued)
Topic : Cross-Pollination
Lecture No 02
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Cross-Pollination:
Cross pollination is the transfer of pollen grains
from the author of one flowere to the
stigma of a genetically different flower.
It is also called allogamy (bik. allos-other,
gamos - morriage) or xenogamy (blk. xeros -
strange, gamos-marriage).
cross pollination is performed with the help
of an external agency either abiotic leg.
wind, water) or bistic (e.g., insects,
birds, batg, snails).
cross pollination is named after the agency
that assists it, i.e.,
i) Anemophily (wind pollination)
(2i) Hydrophily (Datere pollination)
(iii) Entomophely Unsect pollination)
(10) Donithophily (Bird pollination)
w chiropterophily (Bat pollination)
and (vi) Malacophily (Snail pollination)
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(2) And mophily (61k. anemog-wind, philein-to love).
It is a mode of cross-pollination or transfer
It pollen grains from a mature anthere to
the stigma which is accomplished through
the agency of wind.
characteristics of anemophilons flower:
in Flowers are small and inconspictions.
· Non-essential parts of flowers are either
absent or reduced.
· Flowers are colorless, odorless and
nectarless.
· Poller grains are light, small and dusty.
and can be blown to distance upto
1300 Km.
· Pollen grains are dry and unwettable.
· Stigma of flowers are hirry, feathery
or branched to catch the wind-borne
pollen grains.
. Anemobily is highly wasteful as it is
non-directional.
(20) Hydrophily (bik. hydro-water; phelein-to love)
It is the mode of pollination or transfer
of pollen grains from the mature author
of a flower to the stigma of another
Stower which is accomplished through the
agency of water.
characteristics of hydrophilony flowers:
· Elmers are small and inconspicuous.
· Perianth and other floral parts
are unpettable.
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