

Plant Breeding Summary

- ❖ Economic Botany deals with the relationship between people and economically important plants to fulfill the three basic needs of life such as food, clothing and shelter.
- ❖ Domestication, a term often used for a more intricate process, involves the genetic alteration of plants which did not appear at once, but rather over a substantial period of time, perhaps hundreds of years for some species.
- ❖ In the history of agriculture Vavilov has given the eight main centres of origin of plants were now divided into 12 centres of origin.
- ❖ In Organic agriculture biofertilizers are microbial inoculants which is ecofriendly, more effective even though cost effective than chemical fertilizers. Rhizobium, Azolla, VAM and sea weeds are used as fertilizers which increase the crop yield many fold.
- ❖ Plant breeding is a purposeful manipulation of plant species in order to create desirable genotype and phenotype for the benefit of mankind. Plant introduction, selection, hybridization, heterosis, mutation breeding, polyploidy breeding and green revolution are the different methods of conventional breeding.