SYLLABUS FOR THE SUBJECT OF AGRICULTURE
PAPER-I

Total Marks: 100


Indicators and issues of agriculture sector in Pakistan and their role in national economy. Land tenure systems and land reforms in Pakistan. Principles, objectives and functions of WTO. Role of IT in agriculture.

SUGGESTED READINGS

6. Azhar, B.A. 1996. Pakistan Agricultural Economics. NBF, Islamabad, Pakistan


33. WTO. 1999. The Legal Test: The results of the Uruguay round of multilateral trade negotiations. Cambridge, UK.
PAPER-II


Concept of modern breeding; doubled haploid breeding, marker-assisted breeding, mutation breeding, heteroploid breeding, hybrid breeding and transgenic breeding. Various techniques of developing transgenic plants and scope of transgenic plants in plant breeding. Impact of cultivation of transgenic crops on biodiversity. Role of agri-biotechnology in crop improvement. Breeding cultivars for marginal lands. Role of edible oilseeds in agriculture and economy of Pakistan. Development of low erucic acid and glucosinolate (double low) varieties in rapeseed and mustard crops.


Classification, propagation, management practices and post harvest handling of Horticultural crops. Role of tissue culture in agriculture. Cultivation, production, chemical and pharmacological properties of medicinal plants. Propagation methods, management practices and marketing of fruit and ornamental plants nurseries.

SUGGESTED READINGS

32. Soil Survey of Pakistan Reports, Pakistan.