

## AGRICULTURE (OPTIONAL) PAPER-I

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt ALL questions. Write Answers in English.

- Q.1 Discuss in detail the yield limiting factors affecting major agricultural crops in Pakistan. Suggest how they can be overcome. 10
- Q.2 What is organic farming; discuss the scope of organic farming in Pakistan. 10
- Q.3 What is Dry Farming; explain the measures which can help in dry farming cultivation in Pakistan.. 10
- Q.4 How do the weeds compete with crop plants? Discuss their harmful effects and methods to control them. 10
- Q.5 What is Biological  $N_2$ -fixation? Discuss different factors which affect it. OR 10
- Explain different factors affecting transpiration; how do they affect the plant growth. 10
- Q.6 What are different extension education methods used in Pakistan to guide the farmers. 10
- Q.7 How can Forestry contribute in increasing farm productivity; describe various Agro-Forestry system. OR 10
- Write a detailed note on Biodiversity and need of its conservation. 10
- Q.8 Discuss various stressful factors responsible for retrogression of Range Lands in Pakistan. OR 10
- What is the importance of wild life and how it can be managed in our country? 10
- Q.9 Write a detailed note on the prospects of Farm Mechanization in Pakistan. 10
- Q.10 Name different Food Industries in Pakistan and describe their role in national economy. OR 10
- What is Land Tenure? Explain different land tenure systems in Pakistan. 10