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## **AGRICULTURE & FORESTRY**

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### **Part-I: Agriculture (50 marks)**

- I. **Concept of Integrated Agriculture:** Components of natural resources as bases for agriculture production (Land, Water, biological, Environmental, Solar, Energy)
- II. **Challenges in Pakistan's Agriculture:** Present scenario and future prospects. Analytical overview: issues and strategies for improvement of crop management, livestock management, fisheries, cottage industry, resource management and rural development. Institutions and policies: issues and options.
- III. **Elements of Climate and their Relationship with Crop Growth:** Farming Systems, biological nitrogen fixation, soil profile, structure and texture, soil fertility, soil erosion and conservation, water logging and salinity
- IV. **Genetic Improvement for Crop Production:** GMO crops, Seed production technology.
- V. **Horticulture:** Floriculture, landscaping, pests and diseases of agriculture crops and their control, integrated pest management.
- VI. **Rainfed and Irrigated Agriculture:** Agriculture mechanization, land tenure and land reforms, role of agriculture in national economy.

### **Part-II Forestry = (50 Marks)**

- I. Forest, rangelands and wildlife importance and significance
- II. Forest management and utilization, wood based industries in Pakistan, silviculture
- III. Range management and utilization
- IV. National and international forest wealth statistics
- V. Role of wildlife as value addition to forestry
- VI. Forest based wildlife resources of Pakistan and their management, eco-tourism
- VII. Forestry, agroforestry, social forestry and forest biometrics
- VIII. Socio-economic and ecological impact of man made forests
- IX. Watershed Management and role of forests in prevailing climate change dilemma
- X. National forest laws and policies at national level, biodiversity & environment

## SUGGESTED READINGS

| S.No. | Title  | Author  |
|-------|--|---|
| 1.    | Shaping the Future of Water for Agriculture                              | World Bank, USA                                 |
| 2.    | Participatory Rural Development in Pakistan                              | Khan, M. H                                      |
| 3.    | Agriculture in Pakistan  | Khan M. H.                                      |
| 4.    | Economic Survey of Latest Years  |   |
| 5.    | Agric/Livestock/Machinery/Rural Developments<br>Censuses of Latest Years |   |
| 6.    | Fundamentals of Soil Science   | Henry D. Foth                                   |
| 7.    | Manual of Plant Production   | Abdul Manan.                                    |
| 8.    | Principles of Field Crop Production                                      | Martin., J.H. & Leonard,<br>W.H.                |
| 9.    | Diseases of Field Crops  | Dickson, J.G                                    |
| 10.   | Irrigation Principles & Practices  | Isrealson, O.W.<br>Vaughn, E. Hansen.           |
| 11.   | A Text Book of Plant Pathology   | A.V.S.S. Sambamurti                             |
| 12.   | Breeding Field Crops   | Poehlman  |
| 13.   | The Principles of Agronomy.  | Harris, Franklin Stewart                        |
| 14.   | Forest Types of Pakistan   | Champion, H.G., S.K.<br>Seth and, G.M.Khattak   |
| 15.   | Manual of Silviculture for Pakistan                                      | Champion, H.G., S.K.<br>Seth and G.M.Khattak    |
| 16.   | Trees of Pakistan  | M.I. Sheikh                                     |
| 17.   | Range Management in Pakistan   | M.A.A. Qureshi                                  |
| 18.   | Comprehensive Forestry   | B.A. Raza                                       |
| 19.   | Farm Forestry in Pakistan,   | M.A.A. Qureshi                                  |
| 20.   | Forest Management  | G.M. Khattak,                                   |
| 21.   | Wildlife Ecology, Conservation and Management                            | A. R. E. Sinclair, J. M.<br>Fryxell, G.Caughley |
| 22.   | Basics of Forestry & Allied Sciences                                     | Dr. Masood A.A.<br>Qureshi                      |