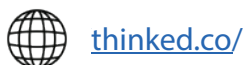




CSS Syllabus

Agriculture & Forestry

For a comprehensive collection of CSS preparation resources; date sheets, notes, solved past papers, examiner reports, and FPSC-recommended Books, please visit our website or feel free to reach out to us. We are here to assist you in your CSS journey.



Paper: Agriculture & Forestry (100 Marks)

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

NEXT PAGE

Suggested Reading

| 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 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, W.H. |
| 9. | Diseases of Field Crops | Dickson, J.G |
| 10. | Irrigation Principles & Practices | Isrealson, O.W. 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. Seth and, G.M.Khattak |
| 15. | Manual of Silviculture for Pakistan | Champion, H.G., S.K. 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. Fryxell, G. Caughley |
| 22. | Basics of Forestry & Allied Sciences | Dr. Masood A.A. Qureshi |

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