

Maharashtra Soil Dept Syllabus || Check Water Conservation Officer Exam Pattern @ mahapariksha.gov.in

Maharashtra Soil Dept Exam Pattern 2019

Sl.No	Background	Name of the Topics	Total Marks
1	Non-Engineering Background	Agriculture	100
2		Horticulture	100
3		Forestry	100
4	Engineering Background	Agriculture Engineering	100
5		Civil Engineering	100
6		Environmental Engineering	100

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Non-Engineering Background

Syllabus For Agriculture:

- Animals and humans
- Physical and social environment as factors of crop distribution and production.
- cropping pattern as indicators of environments.
- Environmental pollution and associated hazards to crops,
- Agroecology
- Cropping patterns in different agro-climatic zones of the country.
- Impact of high-yielding and short-duration varieties on shifts in cropping patterns.
- Concepts of various cropping and farming systems.
- Ecology and its relevance to man, natural resources, their sustainable management, and conservation.

Syllabus For Horticulture:

- Floriculture & Landscape gardening
- Growth and Development of Horticultural Crops
- Propagation of horticultural crops
- Fundamentals of Horticulture
- Management Techniques for horticultural crops
- Production technology of fruit crops
- Production technology of vegetable crops

Syllabus For Forestry:

- Forest Soils, Soil Conservation, and Watershed management:
- Silviculture – General
- Silviculture of Trees
- Forest Management and Management Systems:
- Surveying and Forest Engineering: Forest surveying
- Environmental Conservation and Biodiversity :
- Tree Improvement and Seed Technology:
- Agroforestry, Social Forestry, Joint Forest Management, and Tribology:
- Silviculture – Systems:

Engineering Background

Syllabus For Agriculture

- Agricultural Process Engineering
- Aerial Photography and Remote Sensing
- Agricultural Structures
- Instrumentation and computer applications in Agricultural Engineering
- Soil and Water Conservation:
- Farm Power and Machinery
- Agro-energy
- Irrigation and Drainage

Syllabus For Civil engineering

- Design of Concrete and Masonry Structures.
- Concreting Equipment:
- Construction, Planning, and Management:
- Water Resources Engineering.
- Solid Mechanics.
- Structural Analysis
- Conservation Practice, Planning, and Management

- PERT Network:
- Building Materials.
- Pert Network
- Fluid Mechanics, Open Channel, Flow, Pipe Flow.
- Hydraulics 'Machines and Hydropower.
- Hydrology.
- Design of Steel Structures.
- Earthwork Equipment:

Syllabus For Environmental Engineering

- Solid Waste Engineering
- Solid Waste Management.
- Air and Noise Pollution and Ecology.
- Transportation Engineering.
- Water Supply Engineering.
- Soil Mechanics.
- Founding Engineering.
- Surveying.
- Water Waste Engineering