

Prescriptions of Subjects

9. The prescriptions in the subjects of the examinations shall be as follows:

- (1) *Horticultural Botany*—As prescribed for Horticultural Botany in Schedule 1, clause 9 (1).
- (2) *Plant Pests and Disorders*—As prescribed for Plant Pests and Disorders in Schedule 1, clause 9 (2).
- (3) *Soil Properties and Processes*—As prescribed for Soil Properties and Processes in Schedule 1, clause 9 (3).
- (4) *Horticultural Practices*—As prescribed for Horticultural Practices in Schedule 1, clause 9 (4).
- (5) *Plant Classification*—As prescribed for Plant Classification in Schedule 1 clause 9 (5).
- (6) *Weed Control and Horticultural Chemicals*—As prescribed for Weed Control and Horticultural Chemicals in Schedule 1, clause 9 (6).
- (7) *Soil Management*—As prescribed for Soil Management in Schedule 1, clause 9 (7).
- (8) *Floriculture I*—Areas of floricultural production in New Zealand.
Relationship to locality and potential markets.
The structure of the floricultural industry in New Zealand.
The layout of properties producing floricultural crops (including buildings, roading and shelter).
Floricultural production practices—outdoor and plant house production practices.
Propagation management and planning. The selection, collection and preparation of propagating material.
Marketing—marketing channels, packing, presentation, transport, storage, promotion.
Exporting.
Recording and budgeting (elementary knowledge only).
A DETAILED KNOWLEDGE OF THE PRODUCTION, HARVESTING AND MARKETING OF ANY PARTICULAR FLORICULTURAL CROPS IS NOT REQUIRED.
- (9) *Work Record Report*—As prescribed for in Work Record Report in Schedule 1, clause 9 (9).
- (10) *Horticultural Plant Science*—As prescribed for horticultural plant science in Schedule 1, clause 9 (15).
- (11) *Plant Protection (Floriculture)*—The control of common pests of floricultural crops including a knowledge of ecology, life histories and host-parasite relationships.
Pest management.
The design of spray schedules for floricultural units.
The correction of common physiological disorders of floricultural crops.
- (12) *Floriculture II*—The commercial production, harvesting, marketing, and utilisation of the major floricultural crops grown in New Zealand:
- (13) *Machinery and Structures (Floriculture)*—The types, selection, use and maintenance of tractors, machinery, implements and equipment used on floricultural units.
The types, layout, construction and maintenance of floricultural unit grading, packing and storage buildings, fences, and artificial shelters.
Concrete making and brick laying (a working knowledge only).
Elementary surveying.

- (14) *Oral and Practical I (Floriculture)* (1 day—two 3-hour examinations)—The candidate will be questioned about operations carried out on a floricultural unit, and may be asked to demonstrate techniques used.

The care and use of tools, machines, implements and equipment (including those motor driven) used on floricultural units.

Common floricultural operations, for example, cultivation; planting; plant training and pruning, (including shelter); applying fertilisers; floricultural unit spraying; weed spraying; harvesting; grading; packing.

Floricultural unit building layout, construction and maintenance.

The identification and control of common pest damage and physiological disorders of floricultural plants. Floricultural plant identification—botanical and common names, family, origin, methods of propagation. Identification and control of common weeds.

- (15) *Floricultural Crop Botany*—Factors affecting yield and their interaction.

The physiological basis of production practices such as the application of growth substances, nutrition, and pruning. Practical aspects of genetics and plant breeding as they relate to fruit crops.

- (16) *Floriculture III*—The commercial production, harvesting, marketing and utilisation of established and new Floricultural crops in New Zealand.

- (17) *Engineering (Floriculture)*—Drainage and irrigation—legal requirements, suitable methods and equipment for nursery use, planning and design requirements, installation procedures, water supplies, pumps.

The construction of roads and pathways.

Building design and building materials. The design of floricultural unit buildings, plant support structures, artificial shelter and fences.

The design of frost protection equipment.

Basic welding techniques.

- (18) *Management (Floriculture)*—The use of management procedures in floricultural units—including management objectives, information sources, planning and decision making and financial control techniques, the use of land, labour and capital, budgeting, record keeping, accounting and monitoring the production programme. Labour organisation and management.

Staff training.

Commercial and other laws affecting floricultural management.

Project costing, development budgeting and machinery replacement.

Use of computers in orchards.

- (19) *Project*—A report on a topic of the candidate's choice, subject to the requirements in clause 7 (12). The report should be approximately 3000 words in length, and of a standard suitable for submission to a horticultural journal.

- (20) *Oral and Practical Examination II (Floriculture)*—(1 day—two 3-hour examinations)—A more advanced knowledge of subject 14 topics.

The candidate must submit a plan (own work) of an ideal floricultural unit growing a range of plants for discussion on planning, design and layout.

- (21) As prescribed in clause 8 of this scheme.

Dated at Wellington this 22nd day of January 1987.

COLIN MOYLE, Minister of Agriculture and Fisheries.