

mites, with special reference to species of major importance in horticulture.

2. The general fundamental structure and life-histories of insects, adult, pupal, and larval characters, and habits of the following groups of insects, with special reference, not only to such species as are major pests of plants, but also to such as are beneficial in horticulture.

Beetles (Coleoptera), moths (Lepidoptera), flies (Diptera), saw-flies, bees, parasitic "wasps" (Hymenoptera), aphidions and lace-wings (Neuroptera), aphids, mealy-bugs, scale-insects, white-flies, and plant bugs (Hemiptera), thrips (Thysanoptera), ear-wigs (Dermaptera), crickets, locusts, grasshoppers, and mantids (Orthoptera), and spring-tails (Collembola).

3. The manners in which pests attack plants, and the symptoms by which the type of pest causing damage to plants can be diagnosed.

4. The general principles of control as applied against the above-mentioned pests: Biological, involving host resistance, locality, beneficial insects and birds. Insecticidal: Involving poison and contact insecticides and fumigants. Cultural: Involving clean gardening, cultivation and crop rotation.

5. Storage, involving treatment and protection of stored crops.

In addition to the foregoing a candidate shall be required to pass a *viva voce* examination in practical horticulture.

Syllabus No. 2.

Intermediate Examination: Open only to candidates who have passed the Preliminary Examination.

SECTION I.

Principles of Horticulture.—The origin, classification, chemical composition, principal physical properties (*e.g.*, water-holding power, heat-absorbing power, porosity, and capillarity), and biology of soils. The relations of heat, light, moisture, and wind to the growth of plants. The various kinds of manures, the special properties of each; the scientific basis of manuring; the economics of manuring. The scientific meaning of the various gardening operations—*e.g.*, digging (including trenching), watering, hoeing, mulching, &c. The general principles underlying the different methods of propagation, including germination of seeds. The general principles governing pruning. Rotation of crops. The principles regulating drainage. The methods of raising new races of plants. The commoner fungus and insect diseases and their recognition. The identification of the commoner plant species used in New Zealand horticulture, including weeds. Knowledge in the use of a flora. The horticultural geography of New Zealand. The garden as a plant association.

Practice of Horticulture.—The various gardening operations connected with the soil. The implements and tools used in gardening. The general cultural operations for the year under conditions in different parts of New Zealand. General practice in planting and sowing. Propagation of various classes of plants. Pruning fruit trees and bushes, ornamental trees and shrubs, and roses. Spraying and preparation of material and other methods of dealing with plant diseases and garden pests. Keeping garden accounts.

A practical examination will also be held.

SECTION II.

Candidates to select and display a reasonable working knowledge of one of the following special subjects:—

1. Fruitgrowing.
2. The flower-garden in all its aspects.
3. A knowledge of trees and shrubs, together with their propagation and use in horticulture.
4. Landscape gardening.
5. Vegetable gardening.
6. Nursery management.
7. Glasshouse management.
8. Plant breeding in its wider aspect, including a knowledge of genetics so far as it concerns plants. The various theories of evolution.
9. Horticultural mycology or horticultural entomology so far as fungi or insects present in New Zealand go.
10. The systematic botany of all the families and the leading genera concerned in horticulture.
11. The principles of ecological botany and their horticultural application.
12. Florists' art.
13. The horticultural seed trade in all its branches.

Syllabus No. 3.

Professional Examination: Open to candidates who have passed the Preliminary and Intermediate Examinations.

Syllabus No. 2, advanced, particularly in regard to practical horticulture and its application.

A detailed examination in the special subject taken at the Intermediate Examination with respect to Section II of Syllabus No. 2.

This examination to be mainly of an oral and practical nature.

GROUP B.

Candidates of Group B shall be required to take the same examinations under the same conditions as are provided for candidates of Group A, save that the Examining Board having regard for the number of years any individual candidate may have been practising horticulture, shall be empowered to determine in any manner it considers desirable:—

- (a) The necessity or otherwise of a candidate having to be employed in an approved garden.
- (b) To what extent the provisions for the keeping and supplying of diaries and notebooks to the Examining Board may be waived.
- (c) What further studies, if any, the candidate shall be required to take before being eligible to sit for the Preliminary, Intermediate, and Professional Examinations.

NOTE.—The right of examination extended to candidates of Group B shall terminate on the 31st December, 1929, save that such date may be extended in individual cases at the discretion of the Examining Board.

GROUP C.

Candidates of Group C shall be exempt from all the foregoing provisions relative to the Preliminary, Intermediate, and Professional Examinations, save that they shall be required to pass a *viva voce* examination in practical horticulture. Any candidate passing such examination shall be granted a diploma.

NOTE.—The right of examination on the part of any candidate of Group C shall terminate on the 31st December, 1929, save that such date may be extended in individual cases at the discretion of the Examining Board.

GROUP D.

All the provisions referred to herein relating to the Preliminary and Intermediate Examinations shall be waived with respect to candidates of Group D. Provided they have had two years' practical experience in horticulture, such candidates shall be eligible to sit for the Professional Examination in the terms provided with respect to Group A, subject to any special arrangements the Examining Board may determine.

C. A. JEFFERY,
Acting Clerk of the Executive Council.

Amending Regulations under the Fisheries Act, 1908.

CHARLES FERGUSSON, Governor-General.

ORDER IN COUNCIL.

At Government Buildings at Wellington, this 5th day of March, 1928.

Present:

THE RIGHT HONOURABLE SIR FRANCIS BELL, P.C., PRESIDING IN COUNCIL.

WHEREAS by Order in Council dated the twenty-third day of May, one thousand nine hundred and twenty-six, and published in the *New Zealand Gazette* of the thirty-first day of the same month, regulations were made prohibiting, *inter alia*, the use of nets for taking fish in a certain portion of the Wanganui River:

And whereas it is desirable to revoke the said regulations in so far as they apply to the said prohibition, and to make other provisions in lieu thereof:

Now, therefore, His Excellency the Governor-General of the Dominion of New Zealand, in pursuance and exercise of the powers and authorities conferred upon him by the Fisheries Act, 1908, and of all other powers and authorities enabling him in that behalf, and acting by and with the advice and consent of the Executive Council of the said Dominion, doth hereby revoke paragraph forty-two of the hereinbefore-recited regulations, and doth make the following regulation in lieu thereof.

REGULATION.

42. It shall be unlawful to use a set net for taking fish in any portion of the Wanganui River, or to use a net of any description whatever for taking fish in that portion of the said river above the bridge known as the Town Bridge.

C. A. JEFFERY,
Acting Clerk of the Executive Council.