ROINN OIDEACHAIS AN

(Department of Education).

BRAINSE AN MHEADHON-OIDEACHAIS

(Secondary Education Branch).

LEAVING CERTIFICATE EXAMINATION, 1925

PASS CHEMISTRY.

TUESDAY, 23rd JUNE.—Morning, 10 A.M. to 12 Noon.

[All six questions may be attempted.]

- 1. Describe the preparation of nitrous and nitric oxides. How may the volume composition of nitric oxide be determined?
- 2. How may chlorine gas be prepared? Describe its properties. How may the presence of a chloride in solution be detected?
- 3. Explain the chemical changes that occur in the laboratory preparation of sulphuric acid. Describe the preparation and properties of any two sulphates.
- 4. Give as fully as possible the evidence to prove that water is composed of hydrogen and oxygen.
- 5. Explain the meaning of (a) the law of reciprocal proportions, (b) the equivalent of a metal. How may the equivalent of magnesium be determined?
- 6. How much caustic soda must be added to an excess of hydrochloric acid to produce 100 grams of common salt? How would you verify your answer by experiment?

(Na = 23. Cl = 35.5. O = 16. H = 1.)

48

Book-keeping

Chemistry

Economics