

gases, acids, and salts, and at least five or six quantitative experiments in illustration of the fundamental laws of Chemistry. The laboratory work may be partially tested by requiring the candidate to produce a properly certified record of his experimental work.

(B) *Organic Chemistry* as in Remsen's "Compounds of Carbon" or an equivalent, to be accompanied by laboratory work, which should include the preparation of at least 20 typical carbon compounds. The laboratory work may be tested partly by questions in the papers on Chemistry, and partly by requiring the candidate to produce specimens of his preparations properly certified to be his own work.

(C) *Analytical and Physical Chemistry*, including:—

1. *Qualitative Analysis* of the Common acids and bases. Candidates may be tested by a practical laboratory examination and by questions in the Chemistry papers.
2. *Quantitative Analysis*. The estimation of the following elements in their common compounds:—Chlorine, Sulphur, Phosphorus, Carbon (in carbonates), Silicon, Silver, Copper, Calcium, Magnesium, Lead, Iron; Carbon and Hydrogen in organic compounds. Candidates may be tested by a practical exercise in the laboratory and by question in the Chemistry papers.
3. *Physical Chemistry*, as in Talbot and Blanchard's "Electrolytic Dissociation Theory" and Walker's "Introduction to Physical Chemistry."

(D) *Outlines of History of Chemistry* as in Tilden's "Short History of Scientific Chemistry," Thorpe's "Essays in Historical Chemistry" and "Justin von Liebig" and "John Dalton" in the Century Science Series.

BIOLOGY.

(A) *Botany* as in *Principles of Botany* and *Laboratory and Field Manual* by Bergen and Davis. A practical knowledge of the system of classification and the use of manuals, as Gray's. An acquaintance with (a) the common Spermatophytes and Pteridophytes of Nova Scotia, and (b) type species of native Bryophytes and Thallophytes representing the more common classes or orders. The exhibition of, and examination upon, a collection of one hundred species correctly determined and well mounted by the candidate under (a), and of another hundred (counting microscopic slides) also mounted and determined under (b).