

January, 1943, the school was permitted to prepare students for the complete course of B.E. (mechanical). In 1949 the Senate of the University of New Zealand agreed to recognize the Auckland school for the complete course in civil engineering. In other branches Auckland is permitted to prepare candidates except for the final year. Details of the courses offered in 1948 are set out in Appendix 4.

6. EDUCATION FOR PROFESSIONAL ENGINEERING OTHER THAN BY A UNIVERSITY DEGREE

32. The British Institutions of Civil, Mechanical, and Electrical Engineers provide in their regulations for exemption from the purely theoretical examination requirements for graduates in engineering from recognized Universities and for others who hold qualifications equivalent to examinations conducted by the Institutions. There is a considerable measure of uniformity in these examinations, but there are some differences of detail.

(1) THE COMMON PRELIMINARY EXAMINATION AND RECOGNIZED EXEMPTIONS FROM IT

33. So that there may be as much uniformity as possible the three main Institutions, and some Institutions in other branches of engineering, have combined to form the Engineering Joint Examinations Board which conducts some examinations for all the Institutions. The best known of these examinations, known as the Common Preliminary Examination, is, subject to exemptions, compulsory for Civil Engineers; it is compulsory for Electrical Engineers only if they do not complete the next stage, Section A, by the end of the year in which they become twenty-three. It is not required for Mechanical Engineers, but those who pass it or secure exemption normally gain exemption also in English for Section A. The subjects for the Common Preliminary Examination are—

- (1) English.
- (2) Arithmetic and Algebra,
- (3) Geometry and Trigonometry, all of which are compulsory,
And any two of the following
- (4) Elementary Mechanics,
- (5) Elementary Physics,
- (6) Elementary Chemistry,
- (7) A foreign language.

34. As the Institution of Civil Engineers requires a candidate to pass in a foreign language, either as part of the examination or separately, before proceeding to Section A, this considerably restricts the options for civil engineers. There is no provision for a partial pass in the Common Preliminary Examination. It may be stated here that throughout the associateship examinations the general rule is that a candidate must pass a complete section or division at the one time. The standard of the Common Preliminary Examination may be judged by comparing it with British examinations which are accepted by the Institutions for exemption purposes. These are—

- (a) The School Certificate, provided it includes the requisite subjects passed at one and the same time. The foreign language unit required by the Institution of Civil Engineers may be taken separately.
- (b) The University Entrance Examination: There is no special restriction about subjects, but the Institutions prefer applicants to have passes in English, Mathematics, and Chemistry or Physics.