

SESSION II.  
1918.  
NEW ZEALAND.

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EDUCATION:  
HIGHER EDUCATION.

[In continuation of E.-7, 1917.]

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*Presented to both Houses of the General Assembly by Command of His Excellency.*

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## HIGHER EDUCATION.

## No. 1.—EXTRACT FROM THE FORTY-FIRST ANNUAL REPORT OF THE MINISTER OF EDUCATION.

## NEW ZEALAND UNIVERSITY AND AFFILIATED COLLEGES.

The New Zealand University, the body which has general control of higher education in New Zealand, was founded by the New Zealand University Acts of 1870, 1874, and 1875. In 1876 the University was recognized by Royal charter as entitled to grant the degrees of Bachelor and Master of Arts, and Bachelor and Doctor in Law, Medicine, and Music. The Amendment Act of 1883, and the supplementary charter issued in December of the same year, added the degrees of Bachelor and Doctor of Science. By the provisions of the New Zealand University Act of 1908 and subsequent amending Acts the Senate of the University now has power to confer, in addition to those mentioned, the following degrees: Doctor of Literature; Master of Laws, Surgery, and Science; Bachelor, Master, and Doctor of Veterinary Science, Dental Surgery, Mechanical, Electrical, Civil, Mining, and Metallurgical Engineering, Naval Architecture, Agriculture, Public Health, and Commerce; Bachelor of Science in Home Science, and Bachelor of Science in Architecture. For these latter no further charter has been given, so that nominally they must be considered as having currency only in New Zealand.

The affairs of the University are controlled by three Courts—the Senate, the Board of Studies, and the General Court of Convocation, which consists of members of the four District Courts of Convocation. The Senate consists of twenty-four members or Fellows—four elected by the Governor in Council; eight by the governing bodies of the four affiliated institutions, two by each; four, one each, by the Professorial Boards; and eight, two each, by the four District Courts of Convocation, consisting of the graduates belonging to the several University districts. The Board of Studies consists of twenty members, five of whom are appointed by each of the Professorial Boards of the four institutions affiliated to the University. The District Courts of Convocation consist of graduates of the University.

The Senate has the entire management of and superintendence over the affairs, concerns, and property of the University and, subject to certain provisions relating to the Board of Studies, has power to alter all statutes and regulations. The Board of Studies has power to make recommendations to the Senate as to the appointment of examiners, and as to degrees, diplomas, scholarships, prizes, courses of study, and examinations. The chief function of the General Court of Convocation is to discuss matters relating to the University and to declare its opinion on any such matter.

The revenue of the University is derived mainly from a statutory Government grant of £3,000 per annum, from fees, and from interest on investments. In addition there is paid to it in trust a certain proportion of the national-endowment income for distribution among the four affiliated institutions towards the support of libraries, the establishment of new Chairs, and towards the extension of their work in other ways. The amount received from this source in 1917 was £3,350.

The University is an examining, not a teaching, body, and four teaching institutions are affiliated to it—the Auckland University College, Victoria University College, Canterbury College, and Otago University, situated in the cities of Auckland, Wellington, Christchurch, and Dunedin respectively. The affairs of these University colleges, including the appointment of professors and lecturers, are entirely in the hands of the various Councils. Each of the colleges specializes in certain directions. Otago University has medical and dental schools, a school of mining and metallurgical engineering, and a school of home science; Canterbury College has a school of engineering (mechanical, electrical, and civil); Auckland University College has a school of mines and a school of commerce; and Victoria University College specializes in law and science.

Auckland University College and Victoria University College each receive an annual statutory grant of £9,000, while Canterbury College receives £2,000, and Otago University £5,000. The two latter institutions are endowed with reserves

of land. In addition a certain proportion of the income from the National Endowment Fund for the purposes of education is paid directly to the four affiliated institutions. In 1917 the sum paid to each out of the fund amounted to £1,675. There is also provision for the payment under regulations of a Government subsidy on voluntary contributions to the funds of the institutions affiliated to the University of New Zealand, and special grants are made from time to time for buildings and equipment.

The total amount paid by the Government on account of the University of New Zealand and the affiliated colleges for the year 1917-18 was £51,515, and the total expenditure of these institutions on University education (exclusive of trust funds) was £121,130.

### NEW ZEALAND UNIVERSITY.

The University conducted examinations in 1917 in the faculties of arts, science, medicine, public health, dentistry, home science, law, engineering, commerce, agriculture, and music, and for admission to the legal and accountants' professions. The table below gives the numbers qualifying for degrees and scholarships from the four University Colleges:—

NUMBER OF SUCCESSFUL CANDIDATES AT THE EXAMINATIONS FOR DEGREES IN 1917.

| Degrees, &c.                                | Auckland University College. |    |        | Victoria University College. |    |        | Canterbury College. |    |        | Otago University. |    |        | Total. |    |        |
|---|------------------------------|----|--------|------------------------------|----|--------|---------------------|----|--------|-------------------|----|--------|--------|----|--------|
|   | M.                           | F. | Total. | M.                           | F. | Total. | M.                  | F. | Total. | M.                | F. | Total. | M.     | F. | Total. |
| Doctor of Medicine .. .. .                  | ..                           | .. | ..     | ..                           | .. | ..     | ..                  | .. | ..     | 3                 | .. | 3      | 3      | .. | 3      |
| Doctor of Science .. .. .                   | 1                            | .. | 1      | ..                           | .. | ..     | ..                  | .. | ..     | ..                | .. | ..     | 1      | .. | 1      |
| Honours in Arts .. .. .                     | ..                           | 1  | 1      | 1                            | 3  | 4      | 3                   | 2  | 5      | 3                 | 4  | 7      | 7      | 10 | 17     |
| Honours in Science .. .. .                  | ..                           | 1  | 1      | ..                           | .. | ..     | 1                   | .. | 1      | 1                 | .. | 1      | 2      | 1  | 3      |
| Master of Arts .. .. .                      | ..                           | .. | ..     | 1                            | 1  | 2      | ..                  | 1  | 1      | 1                 | .. | 1      | 2      | 2  | 4      |
| Master of Laws .. .. .                      | 1                            | .. | 1      | ..                           | .. | ..     | ..                  | .. | ..     | ..                | .. | ..     | 1      | .. | 1      |
| Bachelor of--                               |                              |    |        |                              |    |        |                     |    |        |                   |    |        |        |    |        |
| Arts .. .. .                                | 4                            | 6  | 10     | 2                            | 16 | 18     | 4                   | 5  | 9      | 7                 | 5  | 12     | 17     | 32 | 49     |
| Science .. .. .                             | ..                           | 1  | 1      | ..                           | .. | ..     | 2                   | .. | 2      | 1                 | 2  | 3      | 3      | 3  | 6      |
| Medicine and Surgery .. .. .                | ..                           | .. | ..     | ..                           | .. | ..     | ..                  | .. | ..     | 18                | 1  | 19     | 18     | 1  | 19     |
| Laws .. .. .                                | 2                            | .. | 2      | 5                            | 1  | 6      | ..                  | .. | ..     | 1                 | .. | 1      | 8      | 1  | 9      |
| Commerce .. .. .                            | ..                           | .. | ..     | 2                            | .. | 2      | 1                   | .. | 1      | 1                 | .. | 1      | 4      | .. | 4      |
| Engineering (Civil) .. .. .                 | ..                           | .. | ..     | ..                           | .. | ..     | 2                   | .. | 2      | ..                | .. | ..     | 2      | .. | 2      |
| Bachelor of Science in Home Science .. .. . | ..                           | .. | ..     | ..                           | .. | ..     | ..                  | .. | ..     | 4                 | 4  | 4      | 4      | 4  | 4      |
| Senior University Scholarships .. .. .      | 2                            | 1  | 3      | ..                           | 1  | 1      | 2                   | .. | 2      | 1                 | 2  | 3      | 5      | 4  | 9      |
| John Tinline Scholarships .. .. .           | ..                           | .. | ..     | ..                           | .. | ..     | ..                  | .. | ..     | ..                | 1  | 1      | ..     | 1  | 1      |
| Totals, 1917 .. .. .                        | 10                           | 10 | 20     | 11                           | 22 | 33     | 15                  | 8  | 23     | 37                | 19 | 56     | 73     | 59 | 132    |
| Totals, 1916 .. .. .                        | 19                           | 7  | 26     | 22                           | 14 | 36     | 18                  | 6  | 24     | 33                | 17 | 50     | 92     | 44 | 136    |

In addition to these successes, 533 candidates passed sections of the examinations for degrees or for admission to professions; 36 gained certificates of proficiency, and 78 passed the examination for book-keepers. There were 1,771 candidates for the Matriculation Examination, of whom 614 passed the whole examination, 108 completed partial passes, and 291 gained partial passes. In a number of cases the Senate granted passes in sections or in individual subjects to students who have enlisted.

The following table shows the principal items of income and expenditure of the University of New Zealand for the year 1917:—

| <i>Income.</i>              |         | <i>Expenditure.</i>                 |         |
|-----------------------------|---------|-------------------------------------|---------|
|                             | £       |                                     | £       |
| Balances—                   |         | Scholarships .. .. .                | 1,621   |
| General Account .. .. .     | 2,084   | National endowment .. .. .          | 3,350   |
| Scholarship Account .. .. . | 27,188  | Examinations .. .. .                | 6,371   |
|                             | 29,272  | Office salaries .. .. .             | 982     |
| Statutory grant .. .. .     | 3,000   | Expenses of Senate meetings .. .. . | 846     |
| National endowment .. .. .  | 3,350   | Miscellaneous .. .. .               | 1,110   |
| Fees .. .. .                | 7,631   | Rent .. .. .                        | 159     |
| Interest .. .. .            | 1,296   | Balances .. .. .                    | 30,470  |
| Miscellaneous .. .. .       | 143     |                                     |         |
| Bank overdraft .. .. .      | 217     |                                     |         |
|                             | £44,909 |                                     | £44,909 |

In the above statement no account has been taken of special scholarships and prize funds. The balance at the end of the year, £30,253, consists of a balance on the General Scholarships Account of £28,387, and a balance on the General Account of £1,866.

#### AFFILIATED COLLEGES.

(Tables M1 and M2.)

The number of students in attendance at the four University colleges in 1917 was 1,902, of which number 1,007 were men and 895 women. Owing to the war the number of students has been decreasing since 1914, but in 1917 the number was 12 more than in the preceding year, so that it may be hoped that the falling tendency has been arrested. The number of women students has increased from 758 in 1914 to 895 in 1915, thus to some extent counterbalancing the loss in men students. The students are classified as follows: Graduates, 56; undergraduates, 1,194; non-matriculated students, 652. In addition to the matriculated students mentioned above, there were 75 students attached to the various University colleges but exempt from lectures—that is, they were prevented by distance or by the necessity of earning their living from attending lectures at the college, but were allowed to keep terms, except in certain science and professional subjects, by passing the annual college examination.

Of the 1,902 students attending University colleges, 873 were receiving free tuition, being the holders of scholarships, bursaries, or training-college studentships.

With respect to the courses taken by students, it appears that 44 per cent. of the number took the arts course or subjects for teachers' examinations, 15 per cent. were studying medicine, 11 per cent. engineering, 10 per cent. law, 9 per cent. commercial work, and 4 per cent. were taking science courses. Smaller numbers of students took each of the remaining courses, including forty-eight women who took the course in home science.

In addition to the students attending the four University colleges, forty-five students were taking an agricultural course of university grade at the Lincoln Agricultural College.

The total staff of the four University Colleges in 1917 consisted of forty-nine professors, fifty lecturers, and thirty-two assistants, demonstrators, &c. The following table shows the staff of the various institutions:—

|                             | PROFESSORS AND LECTURERS. |    |    |    | Professors. | Lecturers,<br>Demonstrators,<br>and Assistants. |
|-----------------------------|---------------------------|----|----|----|-------------|---|
|                             |                           |    |    |    |             |   |
| Auckland University College | ..                        | .. | .. | .. | 8           | 16  |
| Victoria University College | ..                        | .. | .. | .. | 9           | 16  |
| Canterbury College          | ..                        | .. | .. | .. | 10          | 12  |
| Otago University            | ..                        | .. | .. | .. | 22†         | 38*   |
| Totals                      | ..                        | .. | .. | .. | 49          | 82  |

\* Also the honorary staff of the Dunedin Hospital act as lecturers on clinical medicine and clinical surgery

† And one emeritus professor.

The average salary of full-time professors was £700 per annum.

#### FINANCES OF THE AFFILIATED INSTITUTIONS IN 1917.

Table M4 gives a summary of the receipts and expenditure of the University colleges, excluding special trust accounts and the accounts of non-university institutions under the control of a College Council, such as, for instance, the museum, public library, or school of art connected with Canterbury College, or the museum controlled by the Otago University. The total income was £95,367, and the total expenditure £105,191. The expenditure on administration was £6,575, on salaries £53,202, and on buildings and equipment £34,837. The expenditure on buildings was chiefly in connection with the University of Otago and Canterbury College.

## SCHOLARSHIPS, BURSARIES, ETC.

*Scholarships.*

University scholarships may be divided into three broad classes: (1) Entrance scholarships, (2) scholarships awarded during the degree course, (3) post-graduate scholarships.

(1.) University entrance scholarships are awarded annually on the results of the University Junior Scholarship Examination, and are as follow: University Junior, University National, and Taranaki Scholarships (open only to candidates resident in Taranaki), in addition to some thirty or forty local and privately endowed scholarships awarded on the results of the same examination. Of the candidates for the Entrance Scholarship Examination in 1917, thirteen gained Junior Scholarships, twenty-one gained National Scholarships, one gained a Taranaki Scholarship, fifty-eight passed "with credit," and thirty-six qualified for Matriculation. The value of a Junior Scholarship or a University National Scholarship is £20 per annum in addition to tuition fees; students obliged to live away from home receive also a boarding-allowance of £30 per annum. The expenditure by the University on scholarships was £1,621, and by the Education Department on University National Scholarships £2,971. In addition to the scholarships, and partly in connection therewith, a scheme of bursaries entitling students to free tuition is also in operation, as set out in detail below.

(2.) Scholarships awarded during the degree course are: Senior University Scholarships tenable by candidates for Honours, and awarded on the papers set for repeated subjects in the Bachelor of Arts and Bachelor of Science Examinations; John Tinline Scholarship, awarded on the papers in English of the Senior Scholarship Examination; a number of privately endowed scholarships open to students of the various colleges.

(3.) The chief scholarships awarded at the end of the University course are the Rhodes Scholarship, the 1851 Exhibition Scholarship, the Medical Travelling Scholarship, and the National Research Scholarships. The first three are all travelling scholarships—that is, they are tenable abroad. The Research Scholarships are each of the value of £100 per annum, with laboratory fees and expenses.

So far fifteen Rhodes Scholarships have been granted, of which five have been gained by students of Auckland University College, four by students of Otago University, four by students of Victoria University College, and two by students of Canterbury College. The war has interfered increasingly with the operation of the Rhodes Scholarship system, and in their statement for 1916–17 the Trustees announced their decision to postpone for the present all further election to scholarships.

Up to the present eighteen Research Scholarships have been awarded, two being in active operation in 1917. The subjects of research in the case of these two scholarships were,—

Auckland University College: The dissolution of gold by solutions of sodium cyanide with special reference to the dissolution of gold in colloidide condition.

Otago University: An investigation of New Zealand grasses.

*University Bursaries.*

University bursaries are awarded under the University Amendment Act, 1914, on the credit pass in the University Junior Scholarship Examination or on a higher leaving-certificate qualification, and entitle the holders to exemption from the payment of tuition and examination fees (not exceeding £20 per annum) during a three (or possibly four) years' course at a University college or school of agriculture recognized by the University. The number of University bursars in 1917 was 229, and the amount expended on their tuition and examination fees was £4,019 10s., the cost per head being £16 16s. 3d.

*Educational Bursaries.*

Educational bursaries are awarded under the Education Act, 1914, and any matriculated student is entitled to one who—

- (i.) Has within the six months immediately preceding satisfactorily completed his term of service as a pupil-teacher or probationer, and declares his intention of entering a recognized training college on the completion of the tenure of his bursary ; or
- (ii.) Has satisfactorily completed his course of training at a recognized training college and gained a trained-teacher's certificate ; or
- (iii.) Has otherwise gained a teacher's certificate of a class not lower than Class C.

These bursaries are tenable for three years, with possibly two yearly extensions, at a University college or recognized school of agriculture. The classes taken must be such as to form part of the course in arts, science, or agriculture, and proof of satisfactory progress must be given.

The number of educational bursars in 1917 was thirty-seven (as compared with fifty-five in 1916), of which number seven completed the three years' tenure of their bursaries. In addition sixteen holders of bursaries were absent on military service. The amount expended on tuition and examination fees on account of educational bursaries was £252 1s., the cost per head being £6 16s. 3d.

*Domestic-science Bursaries.*

Domestic-science bursaries tenable at the Otago University may be awarded under the regulations for manual and technical instruction. Applicants for the bursaries must have been resident in the Dominion for not less than twelve months, and must have—

- (1.) Passed the Matriculation Examination or some other examination approved for the purpose ; or
- (2.) Obtained at least a partial pass in the examination for the Class D teachers' certificate ; or
- (3.) Gained a higher leaving-certificate or, in the case of pupil-teachers or probationers, a lower leaving-certificate.

Applicants are required to make a declaration that they will on completion of their course engage in teaching for not less than three years.

The term of a bursary is two (or possibly three) years. The bursar receives £20 per annum, together with the fees for the course for the degree or the diploma in home science or domestic arts, and, if obliged to live away from home, an allowance of £30 per annum.

Bursaries of this kind were awarded to nine students in 1917, making in all twenty-five bursars in attendance at classes. Three students completed the diploma course in 1917, and four the degree course sitting for the examination at the end of the year. Since the inauguration of the home-science course in 1912 sixteen students have gained the diploma and fifteen the degree. Of these ex-students twenty-seven now hold good positions as teachers, the rest having married or taken up other work.

*Agricultural Bursaries.*

The Education Department, in co-operation with the Department of Agriculture, has established a scheme for the granting of agricultural bursaries to qualified candidates in order to enable them to obtain the necessary practical training for positions as teachers or agricultural instructors, as officers of the Department of Agriculture, or as farmers. After completion of their training the bursars are under a legal obligation to serve for a term of three years in one or other of these capacities.

The qualification for a bursary is Matriculation or a higher or lower leaving-certificate, and candidates are preferred who have received agricultural instruction during their secondary-school course. In addition, ex-students of teachers' training colleges who desire to specialize in the teaching of agriculture may obtain bursaries to enable them to receive the necessary training in agriculture. Agricultural bursaries are tenable at an experimental farm, an agricultural college, or other approved institution for two years, with a possible extension to a third year.

Bursars receive an allowance of £20 per annum with free tuition, and if obliged to live away from home a lodging-allowance of £30 per annum.

Eight bursaries were awarded in 1917, seven of which were held at the Central Development Farm, Weraroa, and the remaining one at Lincoln Agricultural College, Canterbury. Two bursars at Weraroa did not finish the year's work, and the bursar at Lincoln went on active service at the end of the year. The Education Department paid £128 6s. 8d. on account of bursars' fees in 1917.

The available accommodation for bursars being limited, a selection has to be made each year from the number of candidates desiring bursaries.

## No. 2.—REPORTS OF THE UNIVERSITY OF NEW ZEALAND AND OF AFFILIATED INSTITUTIONS.

### A. REPORT OF THE UNIVERSITY OF NEW ZEALAND, 1917.

*Visitor*.—His Excellency the Governor-General.

*Chancellor*.—His Honour Sir Robert Stout, K.C.M.G., LL.D., Chief Justice.

*Vice-Chancellor*.—John Macmillan Brown, Esq., M.A., LL.D.

#### *The Senate.*

Appointed by His Excellency the Governor-General in Council—W. J. Anderson, Esq., M.A., LL.D.; the Hon. W. E. Collins, M.B., M.R.C.S. Eng., C.M.G.; H. F. von Haast, Esq., M.A., LL.B.; and the Hon. J. A. Hanan, M.P.

Appointed by governing bodies of affiliated institutions—H. L. Ferguson, Esq., M.A., M.D., F.R.C.S. I.; Rev. W. Hewitson, B.A.; R. J. Scott, Esq., M.Inst.C.E., M.Inst.M.F., F.A.Inst.E.E.; J. C. Adams, Esq., B.A.; H. J. D. Mahon, Esq., B.A.; Hon. J. A. Tole, B.A., K.C.; His Honour Sir R. Stout, K.C.M.G., LL.D., Chief Justice; and Rev. W. A. Evans.

Appointed by Professorial Boards—W. B. Benham, Esq., D.Sc., F.R.S.; C. Chilton, Esq., M.A., D.Sc., C.M., F.L.S.; H. W. Segar, Esq., M.A.; H. B. Kirk, Esq., M.A.

Elected by District Courts of Convocation—Rev. A. Cameron, B.A.; J. M. Brown, Esq., M.A., LL.D.; J. W. Tibbs, Esq., M.A.; Dr. W. C. W. McDowell, B.A., M.D., C.M.; H. H. Ostler, Esq., LL.B.; J. Hight, Esq., Litt.D., F.R.E.S.; P. Marshall, Esq., M.A., D.Sc., F.G.S., F.R.G.S.; and T. A. Hunter, Esq., M.A., M.Sc.

*Registrar*.—E. T. Norris, Esq., M.A.

#### ANNUAL REPORT OF THE SENATE.

In compliance with the 31st clause of the University Act, the Senate makes the following report to His Excellency the Governor-General of the proceedings of the University since the date of the last report:—

Pursuant to the provisions of the University Act, the Senate met at Dunedin in annual session on the 16th January, 1918, and at that session made certain amendments to the University statutes. These amendments have been submitted to His Excellency for his approval.

Special meetings of the Senate were held in March, May, June, and September, 1917.

During the year the following degrees were conferred: Doctor of Science, 1; Doctor of Medicine, 2; Master of Arts, 21; Bachelor of Arts, 44; Master of Science, 4; Bachelor of Science, 11; Bachelor of Engineering, 2; Master of Laws, 3; Bachelor of Laws, 15; Bachelor of Medicine and Bachelor of Surgery, 23; Bachelor of Dental Surgery, 2; Bachelor of Commerce, 2; Bachelor of Science in Home Science, 4.

The usual examinations were held in February, March, May, July, September, October, November, and December, 1917, in the faculties of arts, science, medicine, public health, dentistry, home science, law, engineering, commerce, agriculture, and music, and for admission to the legal and accountants' professions. At these examinations 99 students qualified for degrees, 533 passed sections of the examinations for degrees or for admission to a profession, 36 gained certificates of proficiency, and 78 passed the examination for book-keepers. Of the candidates who qualified for degrees, 17 gained Honours in Arts and 3 Honours in Science; 11 were awarded Senior Scholarships, and 1 the Tinline Scholarship. Of the candidates for Entrance Scholarship Examinations, 10 gained Junior Scholarships, 20 gained National Scholarships, 1 gained a Taranaki Scholarship, 59 passed "with credit" and qualified for Matriculation and the Solicitors' General Knowledge Examination, and 31 qualified for Matriculation and Solicitors' General Knowledge, and 5 for Matriculation only. There were 1,771 candidates for the Matriculation Examination, of whom 614 passed the whole examination, 108 completed partial passes, and 291 gained partial passes.

In a number of cases the Senate has, in pursuance of its powers under the New Zealand University Amendment Act, 1915, granted to students who have enlisted passes in sections or in individual subjects.

The moneys to be administered by the University under section 32 (b) of the New Zealand University Amendment Act, 1914, were distributed as follows: One-fourth to each affiliated Institution as follows:—

- (1.) To Auckland University College, the sum of £300 for carrying on the work of the Workers' Educational Association and for University extension classes, and the balance for the College library, the science laboratories, and the School of Architecture.

- (2.) To Victoria University College, the sum of £300 for carrying on the work of the Workers' Educational Association and for University extension classes, and the balance for founding a School of Economics.
- (3.) To Canterbury College, the sum of £300 for carrying on the work of the Workers' Educational Association and for University extension classes, and the balance for the College library.
- (4.) To the University of Otago, the sum of £300 for carrying on the work of the Workers' Educational Association and for University extension classes, and the balance for the Chair of Economics and History, and for the library.

In exercise of its statutory functions the Board of Studies met in Wellington in November, 1917, and its recommendations were dealt with by the Senate at its annual session.

ACCOUNTS AND BALANCE-SHEETS FOR THE YEAR ENDED 31st DECEMBER, 1917.

GENERAL ACCOUNT.

|   |    |    |    |    |    | <i>Receipts.</i> |                | £         | s.       | d. |
|---|----|----|----|----|----|------------------|----------------|-----------|----------|----|
| Statutory grant                           | .. | .. | .. | .. | .. | ..               | 3,000          | 0         | 0        |    |
| Degree fees                               | .. | .. | .. | .. | .. | ..               | 695            | 2         | 0        |    |
| Examination fees                          | .. | .. | .. | .. | .. | ..               | 6,627          | 12        | 0        |    |
| Admission <i>ad eundem</i>                | .. | .. | .. | .. | .. | ..               | 21             | 0         | 0        |    |
| Certificates                              | .. | .. | .. | .. | .. | ..               | 127            | 3         | 0        |    |
| Medical registration                      | .. | .. | .. | .. | .. | ..               | 140            | 14        | 0        |    |
| Scholarship matriculating                 | .. | .. | .. | .. | .. | ..               | 18             | 18        | 0        |    |
| General                                   | .. | .. | .. | .. | .. | ..               | 119            | 6         | 5        |    |
| National endowments                       | .. | .. | .. | .. | .. | ..               | 3,349          | 15        | 1        |    |
|   |    |    |    |    |    |                  | <u>£14,099</u> | <u>10</u> | <u>6</u> |    |
|   |    |    |    |    |    | <i>Payments.</i> |                | £         | s.       | d. |
| Senate sessions                           | .. | .. | .. | .. | .. | ..               | 846            | 9         | 11       |    |
| Office expenses                           | .. | .. | .. | .. | .. | ..               | 1,140          | 11        | 2        |    |
| Printing, stationery, and sundries        | .. | .. | .. | .. | .. | ..               | 1,110          | 2         | 6        |    |
| Examinations—                             |    |    |    |    |    |                  |                |           |          |    |
| February                                  | .. | .. | .. | .. | .. | ..               | 226            | 3         | 2        |    |
| Special                                   | .. | .. | .. | .. | .. | ..               | 193            | 12        | 7        |    |
| May                                       | .. | .. | .. | .. | .. | ..               | 208            | 3         | 10       |    |
| April                                     | .. | .. | .. | .. | .. | ..               | 62             | 13        | 8        |    |
| July                                      | .. | .. | .. | .. | .. | ..               | 417            | 5         | 10       |    |
| November                                  | .. | .. | .. | .. | .. | ..               | 1,495          | 1         | 8        |    |
| December                                  | .. | .. | .. | .. | .. | ..               | 1,913          | 5         | 9        |    |
| English agency                            | .. | .. | .. | .. | .. | ..               | 1,854          | 19        | 5        |    |
| Transfers to Ordinary Scholarship Account | .. | .. | .. | .. | .. | ..               | 1,500          | 0         | 0        |    |
| National endowments                       | .. | .. | .. | .. | .. | ..               | 3,349          | 15        | 1        |    |
|   |    |    |    |    |    |                  | <u>£14,318</u> | <u>4</u>  | <u>7</u> |    |

BALANCE-SHEET.—GENERAL ACCOUNT.

| <i>Dr.</i>                     |    |    | £              | s.       | d.       | <i>Cr.</i>                        |    |              | £              | s.        | d.       |
|--------------------------------|----|----|----------------|----------|----------|-----------------------------------|----|--------------|----------------|-----------|----------|
| Balance from 1916              | .. | .. | 2,084          | 5        | 6        | Payments of 1917, as per list     | .. | ..           | 14,318         | 4         | 7        |
| Receipts for 1917, as per list | .. | .. | 14,099         | 10       | 6        | Balances as under—                |    |              |                |           |          |
| Bank overdraft                 | .. | .. | 217            | 8        | 0        | Imprest, English agent            | .. | 1,950        | 14             | 1         |          |
|                                |    |    |                |          |          | Petty cash                        | .. | 1            | 19             | 6         |          |
|                                |    |    |                |          |          | Post Office Savings-bank deposits | .. | 1,380        | 5              | 10        |          |
|                                |    |    |                |          |          | Due by other accounts             | .. | 1,000        | 0              | 0         |          |
|                                |    |    |                |          |          |                                   |    | <u>4,332</u> | <u>19</u>      | <u>5</u>  |          |
|                                |    |    |                |          |          | Due to other accounts—            |    |              |                |           |          |
|                                |    |    |                |          |          | Ordinary Scholarship              | .. | 2,250        | 0              | 0         |          |
|                                |    |    |                |          |          |                                   |    |              | <u>2,082</u>   | <u>19</u> | <u>5</u> |
|                                |    |    | <u>£16,401</u> | <u>4</u> | <u>0</u> |                                   |    |              | <u>£16,401</u> | <u>4</u>  | <u>0</u> |

BALANCE-SHEET—ORDINARY SCHOLARSHIP ACCOUNT (INCLUDING INVESTMENTS).

| <i>Dr.</i>        |    |    | £              | s.        | d.       | <i>Cr.</i>   |    |               | £              | s.        | d.       |
|-------------------|----|----|----------------|-----------|----------|--|----|---------------|----------------|-----------|----------|
| Balance from 1916 | .. | .. | 27,187         | 18        | 6        | Payments of 1917   | .. | ..            | 1,620          | 14        | 10       |
| Receipts for 1917 | .. | .. | 2,819          | 15        | 7        | Balances—  |    |               |                |           |          |
|                   |    |    |                |           |          | Cash in bank   | .. | 664           | 8              | 5         |          |
|                   |    |    |                |           |          | Inscribed stock  | .. | 1,500         | 0              | 0         |          |
|                   |    |    |                |           |          | War certificates   | .. | 325           | 0              | 0         |          |
|                   |    |    |                |           |          | Loans on mortgage, as per list                             | .. | 23,400        | 0              | 0         |          |
|                   |    |    |                |           |          | Fixed deposits at 4½ per cent.                             | .. | 1,000         | 0              | 0         |          |
|                   |    |    |                |           |          | Post Office Savings-bank                                   | .. | 183           | 9              | 5         |          |
|                   |    |    |                |           |          | Due by other accounts                                      | .. | 2,250         | 0              | 0         |          |
|                   |    |    |                |           |          | Interest due and unpaid                                    | .. | 65            | 0              | 5         |          |
|                   |    |    |                |           |          |  |    | <u>29,387</u> | <u>18</u>      | <u>3</u>  |          |
|                   |    |    |                |           |          | Less due to General Account, £1,000; Tinline Account, 19s. | .. | 1,000         | 19             | 0         |          |
|                   |    |    | <u>£30,007</u> | <u>14</u> | <u>1</u> |  |    |               | <u>28,386</u>  | <u>19</u> | <u>3</u> |
|                   |    |    |                |           |          |  |    |               | <u>£30,007</u> | <u>14</u> | <u>1</u> |





## REPORT.

The CHAIRMAN OF THE BOARD OF GOVERNORS to the MINISTER OF EDUCATION.

SIR,—

Auckland University College, 17th June, 1918.

In pursuance of the provisions of the Auckland University College Act, 1882, the Council has the honour to make the following report for the year 1917:—

1. *Number of Students.*—The number of students pursuing studies at this College in 1917 was 503. Those attending lectures numbered 489, graduates, 8 (males 3, females 5); undergraduates, 267 (males 178, females 89); non-matriculated students, 214 (males 82, females 132). The number of students who were exempted from attendance was 14 (males 12, females 2).

2. *Council.*—No changes have taken place in the personnel of the Council, members retiring or resigning having been reappointed or re-elected unopposed. Under revised standing orders, Mr. T. W. Leys was re-elected on the 16th July Chairman of the Council for the ensuing year.

3. *Staff.*—On the 28th February the Rev. C. M. Nelson, M.A., retired from the registrarship, receiving the thanks of the Council for services rendered during nearly ten years. The Rev. A. B. Chappell, M.A., F.R.E.S., was appointed to succeed him. News was received in October that Mr. H. A. E. Milnes, B.Sc., Lecturer in Education (absent on leave with the Forces), had been killed in action in Flanders. The Council placed on record its high appreciation of Mr. Milnes's character and services. Mr. H. G. Cousins, M.A., continues to act as *locum tenens* in the lectureship. Mr. S. I. Crookes, M.I.E.E., M.Am.I.E.E., was appointed in February as *locum tenens* for Mr. W. Wilson, B.E., M.Sc., Lecturer in Electrical Engineering (released for munitions work in England). Some minor changes in the staff were occasioned by enlistments for service with the Forces.

4. *Receipts and Expenditure.*—General Account: Receipts, including balance of £13,123 19s. 5d. from 1916, £29,535 7s. 11d.; expenditure, £15,746 5s.; balance, £13,789 2s. 11d. Sinclair-Gillies Trust Account: Receipts, including balance of £4,040 10s. 7d. from 1916, £4,117 4s. 7d.; expenditure, £140; balance, £3,977 4s. 7d. Sinclair Bequest: Receipts, including balance of £32 12s. 10d. from 1916, £34; expenditure, nil; balance, £34. Endowments: The income from the endowments was £1,223 10s. 7d.; expenditure, £3 3s.; balance, £1,220 7s. 7d. New buildings: Expenditure on account, £1,713 16s. 2d. Temporary accommodation: Expenditure on account, £1,042 2s. 3d.

5. *Degrees and Honours.*—At the November examinations of 1917 the following successes were gained by students of the College: Master of Arts, 1; Master of Science, 1; Bachelor of Arts (final section), 10; Bachelor of Arts (first section), 16; Bachelor of Science (final section), 1; Bachelor of Science (first section), 5; Master of Laws, 1; Bachelor of Laws (final section), 2; Bachelor of Laws (preliminary section), 17; Bachelor of Music, 1. The honours list comprises—First class (botany), 1 third class (Latin), 1; third class (French), 1. University Senior Scholarships, 3 (English, economics, and botany).

6. *A School of Architecture*, with a staff of two part-time lecturers, one of whom acts as Director of the school, was established during the year. The Schools of Music, Commerce, Mining, Engineering, and Architecture were attended during the year by the following numbers of students: School of Music, 43; School of Mining Engineering, 39; School of Commerce, 63; School of Architecture, 11.

7. *Workers' Educational Association.*—During the year the activities of the Workers' Educational Association in this University district were vigorously maintained. Ten classes were conducted, eight of them in the city and suburbs, one in Hamilton, and one in Whangarei. Seven were studying economics, one industrial history, one hygiene, and one a debating and literary course. Six of the classes completed a three-years course, two were in their second year, and two in their first year. Three of the classes organized occasional public lectures, and a short series of lectures on law was independently given. Five popular scientific lectures, illustrated by cinematograph films, were delivered publicly under the auspices of the association.

8. *Accommodation.*—During 1917 a more momentous change had to be effected in College accommodation. In order to provide a route for a needed eastern outlet for the city's traffic the Auckland City Council took the property, with others, under the Public Works Act, in 1914, and in 1917 the work of making the new road, surveyed right through the College buildings, was so far advanced as to necessitate the College authorities making altogether fresh arrangements for housing the College. The time was quite inopportune, owing to the financial restrictions imposed by the war. No permanent site was available, no Government grant could be made, and the prospect of securing suitable accommodation was slender indeed. However, at this critical juncture the old Grammar School building in Symonds Street became vacant, and the generosity of the Grammar School Board placed it at the disposal of the University College. Nothing better than an annual lease of it could be given, but in their difficult situation the College authorities felt justified in securing that limited tenure and spending about £2,000 in adapting the building to its new use. Even this arrangement could not meet the requirements of all College activities, and the Choral Hall site had to be used as well. On the latter a two-story brick building had to be erected to accommodate the sciences of physics, chemistry, biology, and geology. This structure, the contract price for which was £14,767 without fittings or scientific equipment, will doubtless be a permanent portion of the ultimate home of the College. Its design is not ideal, for consideration of economy forced the College authorities to incorporate in it a large part of the existing hall; but it will serve for many years to come, and the comparative adjacency to it of the Grammar School property has simplified somewhat the temporary solution of





## REPORT.

The VICTORIA UNIVERSITY COLLEGE COUNCIL to the MINISTER OF EDUCATION.

Victoria University College, 15th May, 1918.

In pursuance of section 44 of the Victoria College Act, 1905, the Council presents the following report for the year 1917-18:—

*Number of Students.*—The number of students attending lectures during the year was 320, made up as follows: Matriculated students—Men, 129; women, 140: total, 269. Non-matriculated students—Men, 19; women, 32: total, 51. There were in addition 37 exempted students, composed of 20 men and 17 women. These figures needed scrutiny. Of the men students, some joined the Army before the end of the session, some after the examination; none of these will be at College for next session. This year, as in each of the past three years, many students as they come of age leave for war service during the session. The exact numbers are not available, but it is probably within the mark to say that of past and present students over five hundred have enlisted. This has had and continues to have a marked effect on all College activities. It is a significant fact that the drop in the number on the rolls is only three as compared with last year. This is accounted for by the steady and normal increase of women students during the past four years; while in the case of the men there was an abnormal drop in 1915, and there has been a steady fall since. The following tabular statement is illuminating:—

|      |     |     |     |     | Numbers<br>on Roll. | Men. | Women. |
|------|-----|-----|-----|-----|---------------------|------|--------|
| 1914 | ... | ... | ... | ... | 377                 | 243  | 134    |
| 1915 | ... | ... | ... | ... | 383                 | 232  | 151    |
| 1916 | ... | ... | ... | ... | 323                 | 162  | 161    |
| 1917 | ... | ... | ... | ... | 320                 | 148  | 172    |

From these figures it is quite evident that when the war ends and the men now on service come back to College to complete their interrupted courses, together with the normal annual flow from the secondary schools, the numbers will go up in a way that will altogether overtax our present accommodation.

*Degrees gained.*—The following degrees were gained: Master of Arts, 8 (6 with honours); Master of Laws, 4 (3 with honours); Bachelor of Arts, 15; Bachelor of Arts (first section), 22; Bachelor of Science, 1; Bachelor of Science (first section), 1; Bachelor of Laws, 6; Bachelor of Laws (sections), 12; Bachelor of Commerce (sections), 2. Two Senior University Scholarships were gained—namely, those in Latin and English. The Sir George Grey Scholarship was awarded to Miss E. W. J. Fenton and Mr. J. E. Brodie, bracketed equal.

*School of Economics.*—The war still blocks the way to the establishment of a School of Economics. The Council is anxious, when it does open this school, to get a good man in the Chair of Economics and the school well equipped for a start. To this end the Council sets aside annually the amount of the national endowment received for the purpose from the Senate. From this source the sum of £1,440 16s. 7d. has accrued, and further sums out of revenue, which would have been expended on the School of Economics had it been in operation, are set aside for future use. These sums, together with the grant from the Macarthy Trust, will, the Council feels sure, enable it to carry on a well-equipped school.

In many other ways needless to particularize the general working of the College, as in the case of all other national works, is greatly hindered by present conditions. For example, there is no professor in the Chair of Modern Languages, and the arrangements for these are but temporary. So also the Professor of Physics is at the front, and that subject is in the hands of a *locum tenens*. Moreover, three of the assistants to the professors are with the Forces and their places filled temporarily.

CLEMENT WATSON,  
Chairman, Victoria University College Council.

EXCERPTS FROM THE ANNUAL REPORT OF THE PROFESSORIAL BOARD FOR 1917.

*College Terms and Scholarships.*—First year's terms were kept by eighty-two students, second year's terms by fifty-six students, third year's terms by eighteen students, and fourth year's terms by one student.

*Work of the College.*—Notwithstanding the constant withdrawal of young men and various changes in the staff owing to the war, the number of students in attendance at the College has suffered little change, while the work of the various departments has been continued as usual. The only important change as regards students' work is the introduction of regulations enabling students who have failed for terms at the October examinations to sit at a special examination in the following March to enable them to qualify for terms without the loss of a year, permission to sit for such special examination being granted only upon the recommendation of the Professorial Board in suitable cases. The privilege is at present confined to students in actual attendance at the College.

Dr. Cotton has, at the request of the Department of Agriculture, conducted College classes in geology and surveying at Weraroa.

*Library.*—During the year there have been 675 accessions at a cost of £284 15s. 10d. 102 of these were donations.

*War Work.*—The activities of the science departments have been largely modified as a result of the war. Although there has been an increase in the numbers of students entering for degrees in science and medicine, there are practically no advanced students, the senior men being of military age. The Professor of Biology has devoted much time during the year to questions of camp sanitation, more particularly in connection with flies and mosquitoes. The staff has from time to time been consulted by the Defence Department in connection with matters of a highly

technical nature. Many inquiries have been received from manufacturers and others in consequence of the difficulty of importing manufactured goods, and in some cases considerable assistance has been given. The Industrial Association has recognized the importance of this branch of the College work, and has made a donation to the Research Fund. In connection with the organization of scientific and industrial research a committee has been appointed, and has co-operated with the general committee set up at the request of the Efficiency Commissioners to deal with this important question.

*List of Appointments.*—Dr. A. B. Fitt (M.A., 1909), a former student of this College, has been appointed to take charge of the new Department of Experimental Psychology at Melbourne University.

*List of Publications.*—D. M. Y. Sommerville, "Nomogram for the Solution of the Cubic Equation," *Math. Notes* (Edinburgh Math. Soc.) No. 21, Dec., 1916, pp. 248-49.

*Donations.*—The Board gratefully acknowledges the following: From the late Lieutenant Athol Hudson, Rhodes Scholar, £200 for the advancement of scientific research; from the Wellington Industrial Association, £35 4s. for the same purpose; from two anonymous donors (per Professor Easterfield), £10 each for the same purpose.

REPORT FOR THE SENATE ON TUTORIAL CLASSES CONTROLLED BY THE VICTORIA UNIVERSITY COLLEGE FOR THE YEAR 1917.

During the year the five classes which were in operation last year were all carried on, though, owing to the loss of its tutor, Mr. P. W. Burbidge, who volunteered for active service, the electricity class in Wellington could not be started until the second half of the year, when it was taken over by Professor H. Clark. One new class in economics was recognized at Feilding as a half-course, beginning in August, but it was made clear that the Committee would not be able to carry this class on in 1918 unless further funds were available either from the Government or from other sources. Inquiries for the formation of new classes have come from Westport and Nelson, but it will be impossible for these to be inaugurated under present conditions unless some of the three Wellington classes which have completed their three-years course are dropped. At present we have a cash balance of nearly £45, which, with the University grant for 1918, will give a total of £345 for expenditure this year. The salaries of the tutors alone in the five classes at Wellington, Petone, and Palmerston North will absorb £360. A grant of £50 will be receivable from the Workers' Educational Association towards the cost of the Petone class, and the Palmerston North Borough Council will probably continue its grant of £50, though this is not certain, owing to the conditions for the control of this class having been changed in deference to the wishes of the Auditor-General.

ACCOUNTS AND BALANCE-SHEETS.

STATEMENT OF RECEIPTS AND EXPENDITURE FOR THE YEAR ENDED 31ST MARCH, 1918.

| <i>Receipts.</i>                                       |  | £      | s. | d. | <i>Expenditure.</i>                     |        | £  | s. | d.                  |
|--|--|--------|----|----|---|--------|----|----|---------------------|
| Balance brought forward .. ..                          |  | 13,481 | 9  | 4  | Salaries—                               |        |    |    |                     |
| Government grant .. ..                                 |  | 9,000  | 0  | 0  | Staff .. ..                             | 10,150 | 9  | 6  |                     |
| New Zealand Society of Accountants ..                  |  | 150    | 0  | 0  | Caretaker and assistants .. ..          | 355    | 0  | 0  |                     |
| Rent of reserves .. ..                                 |  | 68     | 15 | 6  | Office salaries and expenses .. ..      | 785    | 13 | 1  |                     |
| Fees, scholarships and bursaries .. ..                 |  | 2,868  | 4  | 0  | Printing and stationery .. ..           | 135    | 16 | 9  |                     |
| Convocation grant, New Zealand University              |  | 15     | 15 | 0  | Advertising .. ..                       | 30     | 19 | 6  |                     |
| Tutorial classes, New Zealand University               |  | 300    | 0  | 0  | Travelling-expenses .. ..               | 0      | 34 | 0  |                     |
| Government grant (national endowment)                  |  | 1,674  | 17 | 7  | Examination expenses .. ..              | 54     | 3  | 3  |                     |
| Sale of calendars .. ..                                |  | 1      | 5  | 8  | Insurances .. ..                        | 80     | 11 | 0  |                     |
| New Zealand Pharmacy Board (Chemical Laboratory) .. .. |  | 2      | 10 | 0  | Maintenance .. ..                       | 181    | 17 | 1  |                     |
| Examination fees .. ..                                 |  | 155    | 8  | 0  | Contingencies .. ..                     | 75     | 18 | 6  |                     |
| Interest .. ..   |  | 186    | 7  | 7  | Water .. ..                             | 14     | 6  | 6  |                     |
| W. E. A. Grant, tutorial classes .. ..                 |  | 10     | 0  | 0  | Heating .. ..                           | 82     | 9  | 9  |                     |
| Sir George Grey Scholarship .. ..                      |  | 50     | 0  | 0  | Lighting .. ..                          | 161    | 5  | 1  |                     |
|  |  |        |    |    | Grounds .. ..                           | 42     | 5  | 8  |                     |
|  |  |        |    |    | Chemicals and apparatus .. ..           | 372    | 7  | 0  |                     |
|  |  |        |    |    | Library .. ..                           | 340    | 3  | 10 |                     |
|  |  |        |    |    | Court of Convocation .. ..              | 15     | 15 | 0  |                     |
|  |  |        |    |    | Fees refunded .. ..                     | 14     | 14 | 0  |                     |
|  |  |        |    |    | Tutorial classes .. ..                  | 378    | 18 | 0  |                     |
|  |  |        |    |    | Calendars, New Zealand University ..    | 25     | 0  | 0  |                     |
|  |  |        |    |    | Legal expenses .. ..                    | 32     | 10 | 0  |                     |
|  |  |        |    |    | Sir George Grey Scholarship .. ..       | 50     | 0  | 0  |                     |
|  |  |        |    |    | Transferred to separate accounts—       |        |    |    |                     |
|  |  |        |    |    | Athol Hudson Bequest Account .. ..      | 200    | 0  | 0  |                     |
|  |  |        |    |    | S. A. Rhodes Bequest Account .. ..      | 7,912  | 10 | 0  |                     |
|  |  |        |    |    | School of Economics Account .. ..       | 904    | 3  | 6  |                     |
|  |  |        |    |    | Balance at 31st March, 1918—            | £      | s. | d. |                     |
|  |  |        |    |    | Post Office Savings-bank ..             | 1,203  | 1  | 7  |                     |
|  |  |        |    |    | Bank of New Zealand on fixed deposit .. | 4,859  | 3  | 5  |                     |
|  |  |        |    |    | Less—                                   | 6,062  | 5  | 0  |                     |
|  |  |        |    |    | Dr. balance, £                          | s.     | d. |    |                     |
|  |  |        |    |    | Bank N.Z. ..                            | 355    | 13 | 3  |                     |
|  |  |        |    |    | Unpresented cheques ..                  | 149    | 8  | 1  |                     |
|  |  |        |    |    | Library Deposit Fund ..                 | 18     | 18 | 0  |                     |
|  |  |        |    |    | S. A. Rhodes Account ..                 | 5      | 0  | 0  |                     |
|  |  |        |    |    |   | 528    | 19 | 4  |                     |
|  |  |        |    |    |   |        |    |    | 5,533 5 8           |
|  |  |        |    |    |   |        |    |    | <u>£27,964 12 8</u> |
|  |  |        |    |    |   |        |    |    | <u>£27,964 12 8</u> |

## S. A. RHODES BEQUEST ACCOUNT.

| <i>Receipts.</i>   |  |  | £                  | s. | d. | <i>Expenditure.</i>                     |  |  | £                  | s. | d. |
|--|--|--|--------------------|----|----|---|--|--|--------------------|----|----|
| Balance brought forward (transferred from General Account) .. .. . |  |  | 7,912              | 10 | 0  | Fixed deposit, Bank of New Zealand ..   |  |  | 8,750              | 0  | 0  |
| Grants from trustees .. .. .                                       |  |  | 1,000              | 0  | 0  | Post Office Savings-bank .. .. .        |  |  | 526                | 12 | 4  |
| Interest .. .. .   |  |  | 369                | 2  | 4  | In current account, Bank of New Zealand |  |  | 5                  | 0  | 0  |
|  |  |  | <u>£9,281 12 4</u> |    |    |   |  |  | <u>£9,281 12 4</u> |    |    |

## SCHOOL OF ECONOMICS ACCOUNT.

| <i>Receipts.</i>   |  |  | £                  | s. | d. | <i>Expenditure.</i>                      |  |  | £                  | s. | d. |
|--|--|--|--------------------|----|----|--|--|--|--------------------|----|----|
| Balance brought forward (transferred from General Account) .. .. . |  |  | 904                | 3  | 6  | On fixed deposit, Bank of New Zealand .. |  |  | 1,440              | 16 | 7  |
| New Zealand University, National Endowment Fund .. .. .            |  |  | 536                | 13 | 1  |  |  |  |                    |    |    |
|  |  |  | <u>£1,440 16 7</u> |    |    |  |  |  | <u>£1,440 16 7</u> |    |    |

## ATHOL HUDSON BEQUEST AND SCIENTIFIC RESEARCH FUND.

| <i>Receipts.</i>   |  |  | £               | s. | d. | <i>Expenditure.</i>                 |  |  | £               | s. | d. |
|--|--|--|-----------------|----|----|-------------------------------------|--|--|-----------------|----|----|
| Balance brought forward (transferred from General Account) .. .. . |  |  | 200             | 0  | 0  | In Post Office Savings-bank .. .. . |  |  | 255             | 4  | 0  |
| Donations .. .. .  |  |  | 55              | 4  | 0  |                                     |  |  |                 |    |    |
|  |  |  | <u>£255 4 0</u> |    |    |                                     |  |  | <u>£255 4 0</u> |    |    |

## LIBRARY DEPOSIT ACCOUNT.

| <i>Receipts.</i>                |  |  | £               | s. | d. | <i>Expenditure.</i>                                      |  |  | £               | s. | d. |
|---------------------------------|--|--|-----------------|----|----|--|--|--|-----------------|----|----|
| Balance brought forward .. .. . |  |  | 19              | 19 | 0  | Library deposit refunded .. .. .                         |  |  | 1               | 1  | 0  |
|                                 |  |  |                 |    |    | Balance at Bank of New Zealand, 28th March, 1918 .. .. . |  |  | 18              | 18 | 0  |
|                                 |  |  | <u>£19 19 0</u> |    |    |  |  |  | <u>£19 19 0</u> |    |    |

## UNION PRIZE FUND.

| <i>Receipts.</i>                |  |  | £               | s. | d. | <i>Expenditure.</i>                        |  |     | £               | s. | d. |
|---------------------------------|--|--|-----------------|----|----|--|--|-----|-----------------|----|----|
| Balance brought forward .. .. . |  |  | 110             | 15 | 4  | Prizes paid .. .. .                        |  |     | 8               | 14 | 6  |
| Interest .. .. .                |  |  | 4               | 10 | 0  | Bank commission .. .. .                    |  |     | 0               | 5  | 0  |
|                                 |  |  |                 |    |    | Balance 28th March, 1918—                  |  |     |                 |    |    |
|                                 |  |  |                 |    |    | Wellington City Council debentures .. .. . |  | £   | s.              | d. |    |
|                                 |  |  |                 |    |    | Balance at Bank of New Zealand ..          |  | 100 | 0               | 0  |    |
|                                 |  |  |                 |    |    | Less unrepresented cheque ..               |  | 4   | 7               | 6  |    |
|                                 |  |  |                 |    |    |  |  |     | 6               | 5  | 10 |
|                                 |  |  | <u>£115 5 4</u> |    |    |  |  |     | <u>106 5 10</u> |    |    |
|                                 |  |  | <u>£115 5 4</u> |    |    |  |  |     | <u>£115 5 4</u> |    |    |

## JACOB JOSEPH SCHOLARSHIP FUND.

| <i>Receipts.</i>                |  |  | £                 | s. | d. | <i>Expenditure.</i>                |  |  | £                 | s. | d. |
|---------------------------------|--|--|-------------------|----|----|------------------------------------|--|--|-------------------|----|----|
| Balance brought forward .. .. . |  |  | 3,534             | 3  | 0  | Scholarship .. .. .                |  |  | 30                | 0  | 0  |
| Interest .. .. .                |  |  | 135               | 0  | 0  | Stamps (cheques) .. .. .           |  |  | 0                 | 0  | 2  |
|                                 |  |  |                   |    |    | Bank commission .. .. .            |  |  | 0                 | 12 | 0  |
|                                 |  |  |                   |    |    | Balance, 28th March, 1918—         |  |  |                   |    |    |
|                                 |  |  |                   |    |    | Wellington City debentures .. .. . |  |  | 3,000             | 0  | 0  |
|                                 |  |  |                   |    |    | War loan debentures .. .. .        |  |  | 500               | 0  | 0  |
|                                 |  |  |                   |    |    | Balance at Bank of New Zealand ..  |  |  | 138               | 10 | 10 |
|                                 |  |  | <u>£3,669 3 0</u> |    |    |                                    |  |  | <u>£3,669 3 0</u> |    |    |

G. G. S. ROBISON, Registrar.

## D. REPORT OF THE CANTERBURY COLLEGE, 1917.

(The Canterbury College and Canterbury Agricultural College Act, 1896.)

*Visitor.*—The Minister of Education.*Board of Governors* (J. C. Adams, Esq., B.A., Chairman).

Appointed by His Excellency the Governor-General—Leonard Monk Isitt, Esq., M.P.; the Right Rev. Churchill Julius, D.D.; and Thomas William Adams, Esq.

Elected by members of the Legislature—John Joseph Dougall, Esq.; Thomas Henry Davey, Esq., M.P.; and George Thomas Booth, Esq.

Elected by graduates—Very Rev. Dean Harper, M.A.; William Brock, Esq., M.A.; William Hugh Montgomery, Esq., B.A.; S. Hurst-Seager, Esq., F.R.I.B.A.; Dr. George Mackenzie Lester, M.R.C.S., M.R.C.T., M.A.; and Arthur Edward S. Flower, Esq., M.A.

Elected by public-school teachers—Thomas Hughes, Esq., B.A.; Jonathan Charles Adams, Esq., B.A.; and Lawrence Berry Wood, Esq., M.A.

Elected by School Committees—Charles Henry Adolphus Truscott Opie, Esq.; Henry Dyke Acland, Esq.; and Hugh Boyd, Esq.

Elected by Professorial Board—William Izard, Esq., M.A., LL.M.

*Registrar*—George H. Mason, Esq.*Staff.*

*Professors.*—Classics—H. Stewart, M.A. (absent on active service); H. D. Broadhead, B.A. (*locum tenens*) Mathematics and Natural Philosophy—J. P. Gabbatt, M.A., M.Sc. English Language and Literature—Arnold Wall, M.A. French and German—T. G. R. Blunt, M.A. Chemistry—W. P. Evans, M.A., Ph.D., M.S.C.I. Engineering—Robert J. Scott, M.I.C.E., M.I.M.E., M.A.I.E.E. Biology and Director of Studies in Science—Charles Chilton, M.A., D.Sc., M.B., C.M., F.L.S. History and Economics, and Director of Studies in Commerce—James Hight, M.A., Litt.D., F.R.E.S. Physics—C. C. Farr, D.Sc., A.M.I.C.E. Mental Science—C. F. Salmond, M.A., N.Z.

Lecturers, five. Assistants and Demonstrators, eight.

## EXTRACT FROM THE ANNUAL STATEMENT OF THE CHAIRMAN OF THE BOARD OF GOVERNORS.

*Finance.*—The total receipts amounted to £52,865, as compared with £51,352 in the year 1916, an increase of £1,513. The total expenditure for the year reached £46,663, exceeding the total of the previous year (£43,196) by £3,467. The surplus of income over expenditure amounted to £5,947, and of this sum £3,180 was utilized to reduce overdrafts, £2,611 was carried forward to the following year, and £156 was transferred to capital. Subsidies and grants from Government amounted during the year to £12,958, of which sum the capitation for free-place pupils reached £5,937. Included in the total were the special grant of £2,000 for specialization in engineering, and £1,675 the grant from the national endowment for University purposes, while the grant towards cost of buildings only amounted for the whole year to £645. The total amount paid in salaries was £26,789, as compared with £25,926 during the previous year. Tuition fees, including the capitation paid by Government for free places, amounted to £9,963, showing a decrease of £1,361 on the figures for the year 1916.

*College.*—During the past year a matter of great importance with regard to the future of Canterbury College has been under consideration, and, though a definite conclusion has not yet been arrived at, it may not be out of place to draw attention to it. Many throughout the Dominion who were interested in education felt that the University of New Zealand was behind Universities in other parts of the world in the provision that was made for the all-important subject of education. The report of a committee set up to investigate the matter stated, *inter alia*, that the present provision was faulty (1) inasmuch as it allowed a student to take the subject too early in his University course—*i.e.*, before he had the groundwork of knowledge or the maturity of mind necessary for commencing a successful study of the subject—and (2) because it was regarded as an ordinary subject of general culture instead of being the nucleus of a group of subjects leading to a special certificate or to a degree. The committee also found that the provision was inadequate because there was not a properly co-ordinated series of studies and no provision was made for advanced or honours work and recognition thereof. Suggestions were made for a post-graduate course which should include not only special study of the necessary group of subjects, but also definite practical work, in order that the holder of the diploma or degree should be not merely a theorist, but also should have practical knowledge resulting from actual contact with classes. The Senate considered these proposals and forwarded them to the Board of Studies for favourable consideration, and the subject will be further dealt with at the



next meeting of Senate. This matter is of special interest to Canterbury College, because, as the Board of Governors has a controlling authority not only over the University College but also over the High Schools, it is possible for the practical work in education to be arranged with little difficulty.

Another matter of interest was the consideration of arranging for residential quarters for female students attending the College. From time to time many students have found a difficulty in obtaining suitable lodgings where they could have not only a comfortable home but also quietude for their study. After careful consideration a suitable residence has been acquired, and by the commencement of the second term of 1918 it is hoped that students who desire to enter the hall will be able to do so. This is a step towards making College life what it should be—*i.e.*, more corporate, and bringing students into closer acquaintanceship one with another.

Many people are entirely ignorant of the outside activities of the College, or, in other words, how far the laboratories and the scientific knowledge of the staff benefit the community. Such people almost entirely ignore the true educational value of the work done, and are certainly ignorant of the use which the manufacturing and business community make of the College. For instance, in the School of Engineering application is constantly being made from all parts of the Dominion for tests to be made of material to be used in building, railway-construction, electrical appliances, &c., while the Lecturer in Geology is often called upon to go far afield to report on the mineral worth of certain districts; the Professor of Botany and Zoology to make careful examination and report on the vegetable and animal life of the Dominion or of the Antarctic regions; while the Professor of Chemistry may be engaged in solving for some firm the difficulties of the manufacture of sulphuric acid, the reason for the corrosion of various metals, or the best methods of preventing scaling in boilers. I quote these instances in the hope that more and more people will learn to appreciate the importance of science generally in connection with industrial pursuits and the immediate value of a University College in their midst.

In the middle of the past year a contract was let for additions to the Biological Department. When this building is completed practically the whole of the authorized extensions to our University College will have been made, and the work of both professor and student will be carried on under most favourable conditions.

*School of Engineering and School of Art.*—[See E.—5, Report on Technical Instruction.]

*Number of Students.*—The following table shows the number of matriculated and non-matriculated students who attended lectures in the years 1915, 1916, and 1917.

|      | Males.  |             | Females. |             | Total. |
|------|---------|-------------|----------|-------------|--------|
|      | Matric. | Non-matric. | Matric.  | Non-matric. |        |
| 1915 | 148     | 69          | 119      | 65          | 401    |
| 1916 | 114     | 40          | 125      | 78          | 357    |
| 1917 | 116     | 66          | 120      | 122         | 424    |

*School of Engineering.*—The following table shows the number of matriculated and non-matriculated students who attended lectures in the years 1915, 1916, and 1917:—

|      | Males.  |             | Females. |             | Total. |
|------|---------|-------------|----------|-------------|--------|
|      | Matric. | Non-matric. | Matric.  | Non-matric. |        |
| 1915 | 32      | 81          | 0        | 1           | 114    |
| 1916 | 24      | 98          | 0        | 1           | 123    |
| 1917 | 32      | 81          | 0        | 1           | 114    |

*University Examinations.*—The following students were recorded by the University as having passed their respective examinations Diploma of Honours and also degree of Master of Arts—Second class in economics, 3; third class in languages, 2. Degree of Master of Arts, 1. Degree of Bachelor of Arts, 9; degree of Bachelor of Arts (first section), 11. Certificate of proficiency (M.A. standard) in history, 1; certificate of proficiency (B.A. standard)—in philosophy and economics, 1; in education, 1. Diploma of Honours and also degree of Master of Science—Second class in chemistry, 1. Degree of Bachelor of Science, 3. Sections of the examination for the degree of Bachelor of Laws, 5. Section of the examination for the degree of Bachelor of Commerce, 1. First examination for the degree of Bachelor of Music, 1. Final examination for the degree of Bachelor of Engineering (Civil), 2. Second professional examination for the degree of Bachelor of Engineering (Electrical), 1. Second professional examination for the degree of Bachelor of Engineering (Mechanical, Electrical, and Civil), 2. First professional examination for the degree of Bachelor of Engineering (Mechanical, Electrical, and Civil), 5. First professional examination for the degree of Bachelor of Engineering (Civil), 3. Engineering Entrance Examination, 3. Senior University Scholarships, 3.

#### ACCOUNTS AND BALANCE-SHEETS.

##### STATEMENT OF BALANCES AT 31ST DECEMBER, 1917.

| Dr.  | ACCOUNTS. | £              | s.       | d.       |
|--|-----------|----------------|----------|----------|
| College Buildings (Additions) Special Loan Account                   | .. ..     | 13,410         | 9        | 9        |
| Boys' High School Expenditure on Buildings and Site Suspense Account | .. ..     | 14,554         | 7        | 2        |
| Girls' High School Maintenance Account                               | .. ..     | 96             | 18       | 1        |
| School of Engineering Buildings Loan Account                         | .. ..     | 1,717          | 0        | 5        |
| Public Library Maintenance Account                                   | .. ..     | 474            | 10       | 7        |
| Mortgages and Debentures—General                                     | .. ..     | 14,000         | 0        | 0        |
| Debentures—  |           |                |          |          |
| Foster and Brown Memorial Funds                                      | .. ..     | 150            | 0        | 0        |
| Miller Prize Fund  | .. ..     | 100            | 0        | 0        |
| Haydon Prize Fund  | .. ..     | 200            | 0        | 0        |
|  |           | <u>£44,703</u> | <u>6</u> | <u>0</u> |

| <i>Cr.</i>   | £       | s. | d. |
|--|---------|----|----|
| College Maintenance Account .. .. .  | 63      | 12 | 5  |
| Classical School Capital Account .. .. .   | 45      | 0  | 0  |
| National Insurance Company Loan Account (Boys' High School) ..                     | 13,000  | 0  | 0  |
| Boys' High School Buildings and Site Loan Sinking Fund Account ..                  | 895     | 8  | 1  |
| Girls' High School Capital Cash Account .. .. .                                    | 2,059   | 12 | 11 |
| Medical School Reserves Capital Cash Account .. .. .                               | 3,390   | 17 | 0  |
| Museum, Library, and School of Technical Science Endowment Revenue Account .. .. . | 1,918   | 0  | 6  |
| Museum, Library, and School of Technical Science Capital Cash Account..            | 18,747  | 14 | 5  |
| School of Engineering and Technical Science Maintenance Account ..                 | 203     | 6  | 2  |
| School of Art Maintenance Account .. .. .  | 577     | 2  | 4  |
| Museum Maintenance Account .. .. .   | 20      | 9  | 7  |
| Museum Guide-book Sinking Fund Account .. .. .                                     | 110     | 0  | 0  |
| Museum Buildings Sinking Fund Account .. .. .                                      | 400     | 0  | 0  |
| Public Library Postle Bequest (Capital) Account .. .. .                            | 1,666   | 8  | 6  |
| Emily S. Foster Memorial Fund (Trust Account) .. .. .                              | 69      | 17 | 7  |
| Helen Macmillian Brown Memorial Fund (Trust Account) .. .. .                       | 100     | 0  | 2  |
| Thomas Miller Prize Fund .. .. .   | 104     | 7  | 4  |
| Joseph Haydon Prize Fund .. .. .   | 264     | 17 | 7  |
| Bank of New South Wales—   |         |    |    |
| No. 2 Account ( <i>Dr.</i> ) .. .. .   | £18,000 | 0  | 0  |
| No. 1 Account ( <i>Cr.</i> ) .. .. .   | 17,110  | 19 | 5  |
|  | 889     | 0  | 7  |
| Plus outstanding cheques .. .. .   | 177     | 10 | 10 |
|  | 1,066   | 11 | 5  |
|  | £44,703 | 6  | 0  |

GEORGE H. MASON, Registrar.  
EDWARD EVANS, Accountant.

Examined and found correct.—R. J. COLLINS, Controller and Auditor-General.

SUMMARY OF RECEIPTS AND EXPENDITURE ON MAINTENANCE ACCOUNTS, 1917.

| Account.                                       | Balance at<br>31st December, 1916. |          | Receipts to<br>31st December, 1917. |       | Payments to<br>31st December, 1917. |       |
|--|------------------------------------|----------|-------------------------------------|-------|-------------------------------------|-------|
|  | £                                  | s. d.    | £                                   | s. d. | £                                   | s. d. |
| College .. .. .                                |                                    |          | 19,675                              | 6 6   | 17,562                              | 11 9  |
| Boys' High School .. .. .                      |                                    |          | 8,516                               | 19 6  | 7,871                               | 19 11 |
| Girls' High School .. .. .                     |                                    |          | 5,164                               | 12 1  | 5,261                               | 10 2  |
| Medical School .. .. .                         |                                    |          | 2,204                               | 5 1   | 2,047                               | 17 5  |
| Museum Library and School of Technical Science | <i>Dr.</i>                         | 29 7 11  | *5,423                              | 10 6  | 5,476                               | 2 1   |
| School of Engineering .. .. .                  | <i>Cr.</i>                         | 129 18 7 | 4,552                               | 8 7   | 3,993                               | 12 2  |
| School of Art .. .. .                          | <i>Cr.</i>                         | 99 14 5  | 3,335                               | 9 8   | 2,858                               | 1 9   |
| Museum .. .. .                                 | <i>Cr.</i>                         | 274 0 11 | 1,637                               | 4 11  | 1,490                               | 16 3  |
| Public Library .. .. .                         | <i>Dr.</i>                         | 729 2 4  | 2,354                               | 17 0  | 2,100                               | 5 3   |
|  |                                    |          | 52,864                              | 13 10 | 46,662                              | 16 9  |

| Account.   | Deficiency of<br>Income. |       | Surplus of<br>Income. |       | How disposed of.  | Balance carried<br>forward. |           |
|--|--------------------------|-------|-----------------------|-------|---|-----------------------------|-----------|
|  | £                        | s. d. | £                     | s. d. |   | £                           | s. d.     |
| College .. .. .                                  |                          |       | 2,112                 | 14 9  | £1,736 13s. transferred to Buildings (Addition) Special Loan Account, in reduction of debt. £312 9s. 4d. transferred to cover additional expenditure on College library | <i>Cr.</i>                  | 63 12 5   |
| Boys' High School .. .. .                        |                          |       | 644                   | 19 7  | Transferred to Buildings Account in reduction of debt .. .. .   |                             |           |
| Girls' High School .. .. .                       | 96                       | 18 1  |                       |       | .. .. .   | <i>Dr.</i>                  | 96 18 1   |
| Medical School .. .. .                           |                          |       | 156                   | 7 8   | Transferred to Capital Cash Account   |                             |           |
| Museum, Library, and School of Technical Science |                          |       | 1,947                 | 8 5   | £29 7s. 11d. overdraft paid off ..  | <i>Cr.</i>                  | 1,918 0 6 |
| School of Engineering .. .. .                    |                          |       | 558                   | 16 5  | £485 8s. 10d. transferred to Buildings Account to cover half cost equipping recent additions  | <i>Cr.</i>                  | 203 0 2   |
| School of Art .. .. .                            |                          |       | 477                   | 7 11  | .. .. .   | <i>Cr.</i>                  | 577 2 4   |
| Museum .. .. .                                   |                          |       | 146                   | 8 8   | £400 transferred as a nucleus for a Buildings Sinking Fund .. .. .  | <i>Cr.</i>                  | 20 9 7    |
| Public Library .. .. .                           |                          |       | 254                   | 11 9  | Overdraft reduced by £254 11s. 9d.  | <i>Dr.</i>                  | 474 10 7  |
|  | 96                       | 18 1  | 6,298                 | 15 2  |   |                             |           |

\*Of this amount £1,965 was paid in advance on account of rents due in 1918.

## COLLEGE MAINTENANCE ACCOUNT.

| <i>Receipts.</i>  |                |            | <i>Expenditure.</i>  |                |            |
|---|----------------|------------|--|----------------|------------|
|   | £              | s. d.      |  | £              | s. d.      |
| Rent of Reserves—   |                |            | Salaries .. .. .   | 11,132         | 11 0       |
| Classical .. .. .   | 8,976          | 5 5        | General expenses—  |                |            |
| Town .. .. .  | 444            | 0 0        | Insurance .. .. .  | 81             | 19 8       |
| Pastoral .. .. .  | 3,130          | 0 0        | Rates .. .. .  | 17             | 19 0       |
| Coal-mining lease .. .. .   | 50             | 0 0        | Water-supply .. .. .   | 18             | 13 8       |
| Mineral-oil lease .. .. .   | 8              | 6 8        | Advertising .. .. .  | 29             | 17 0       |
| Coldstream Reserve—   |                |            | Printing, stationery, and stamps .. .. .   | 266            | 5 2        |
| Chemical laboratory .. .. .   | 317            | 19 2       | Repairs .. .. .  | 37             | 1 10       |
| Physical laboratory .. .. .   | 317            | 19 2       | Furniture, fittings, &c. .. .. .   | 37             | 13 11      |
| House-rents .. .. .   | 72             | 0 0        | Washing and cleaning .. .. .   | 17             | 7 1        |
| Students' fees .. .. .  | 2,207          | 2 0        | Keeping grounds in order .. .. .   | 69             | 2 9        |
| Students' fines .. .. .   | 3              | 9 6        | Fuel .. .. .   | 66             | 16 10      |
| Examination fees of exempted students .. .. .   | 22             | 1 0        | Lighting .. .. .   | 106            | 8 3        |
| Government capitation for commercial classes .. .. .  | 40             | 13 3       | Legal expenses .. .. .   | 56             | 0 8        |
| Subsidy from New Zealand Society of Accountants towards cost of instruction in accountancy .. .. .  | 100            | 0 0        | Expenses of College Students' Club .. .. .   | 19             | 0 1        |
| Government grant of £1 for £1 on above .. .. .  | 100            | 0 0        | Expenses of music lectures .. .. .   | 36             | 18 1       |
| Anonymous donation for purchase of books for College library .. .. .  | 50             | 0 0        | Expenses of election of Governors .. .. .  | 12             | 0 0        |
| Rent of room, &c. (Philosophical Institute) .. .. .   | 5              | 15 0       | Books for College library .. .. .  | 267            | 15 0       |
| Hire of chairs .. .. .  | 3              | 16 0       | Binding library books .. .. .  | 134            | 18 3       |
| Sale of English prosody examples .. .. .  | 2              | 3 0        | Text-book for history and economics course .. .. .   | 34             | 17 8       |
| Sale of plans and specifications— heating, &c., scheme .. .. .  | 11             | 11 0       | Grant in aid to necessitous students .. .. .   | 40             | 0 0        |
| Sale of old tiles .. .. .   | 1              | 5 0        | Class prizes .. .. .   | 91             | 5 0        |
| Fee for chemical analysis .. .. .   | 1              | 1 0        | Prizes for honours students .. .. .  | 10             | 10 0       |
| Share of fee for reporting on City Council reserves .. .. .   | 15             | 12 0       | Inspection of reserves (travelling-expenses) .. .. .   | 209            | 3 10       |
| Contributions—  |                |            | Expenses connected with endowments .. .. .   | 178            | 17 0       |
| From various departments towards cost of inspection of reserves .. .. .   | 229            | 9 0        | Interest—  |                |            |
| From various departments towards cost of travelling-expenses of members of Board .. .. .  | 48             | 5 4        | Buildings (Additions) .. .. .  |                |            |
| From various departments towards salaries of Registrar and staff, and office expenses .. .. .   | 670            | 0 0        | Special Loan Account .. .. .   | 647            | 18 4       |
| From Medical School reserves towards maintenance of Department of Biology, £700; maintenance of Department of Chemistry, £600; maintenance of Department of Physics, £600 .. .. . | 1,900          | 0 0        | Buildings Loan Account .. .. .   | 0              | 1 1        |
| From School of Engineering toward salary of instructor in mathematics .. .. .   | 10             | 0 0        | Maintenance Account .. .. .  | 18             | 19 5       |
| From Boys' High School for rent of playground, tennis court, &c. .. .. .  | 80             | 0 0        |  | 666            | 18 10      |
| From Museum, Library, and School of Technical Science (endowment towards College library) .. .. .   | 20             | 0 0        | Classical School Capital Account ( <i>Cr.</i> ) .. .. .  | 2              | 7 8        |
| Government grant under provisions of section 32 (b) of New Zealand University Amendment Act, 1914 (national endowment) .. .. .  | 836            | 13 0       | Expenses of botanical station .. .. .  | 664            | 11 2       |
|   |                |            | Sundries .. .. .   | 23             | 8 3        |
|   |                |            | Geology lectures .. .. .   | 111            | 10 3       |
|   |                |            | Astronomical observatory .. .. .   | 81             | 1 6        |
|   |                |            | Chemical laboratory .. .. .  | 54             | 0 0        |
|   |                |            | Physical laboratory .. .. .  | 451            | 19 3       |
|   |                |            | Biological laboratory .. .. .  | 675            | 11 9       |
|   |                |            | Contributions—   | 141            | 5 10       |
|   |                |            | To School of Engineering—  |                |            |
|   |                |            | For general .. .. .  | 900            | 0 0        |
|   |                |            | For exhibition .. .. .   | 60             | 0 0        |
|   |                |            | Travelling-expenses of members of Board .. .. .  | 68             | 19 0       |
|   |                |            | Special non-recurring items—   |                |            |
|   |                |            | Furnishings and fittings (professors' and lecturers' rooms) .. .. .  | 120            | 12 6       |
|   |                |            | Furnishings and fittings (ladies' common room .. .. .  | 89             | 7 5        |
|   |                |            | Laying-out quadrangle .. .. .  | 80             | 0 9        |
|   |                |            | Preliminary expenses— heating, &c., scheme .. .. .   | 52             | 18 0       |
|   |                |            | Interest on rents of pastoral reserves paid in advance .. .. .   | 94             | 0 0        |
|   |                |            | New doorways in professors' room .. .. .   | 31             | 16 6       |
|   |                |            | Removing and replacing timbers affected by borer, in College hall .. .. .  | 580            | 17 10      |
|   |                |            | Allocation out of grant from National Endowment towards fittings of new lecture-room block .. .. .                     | 236            | 13 0       |
|   |                |            | Appropriations—  |                |            |
|   |                |            | Rent of tennis club .. .. .  | 7              | 10 0       |
|   |                |            | Grants to <i>College Review</i> .. .. .  | 40             | 0 0        |
|   |                |            | Payment to Workers' Educational Association .. .. .  | 260            | 0 0        |
|   |                |            | Allocation to cover additional expenditure on College library building (stack-room, &c.) .. .. .                       | 312            | 9 4        |
|   |                |            | Allocation to reduce building loan .. .. .   | 1,500          | 0 0        |
|   |                |            | Balance, 31st December (££0 held on account of books for College library, being anonymous donation unexpended) .. .. . | 63             | 12 5       |
|   | <u>£19,675</u> | <u>6 6</u> |  | <u>£19,675</u> | <u>6 6</u> |

## GENERAL BALANCE-SHEET AT 31ST DECEMBER, 1917.

| <i>Liabilities.</i>   |    | £        | s. | d. | <i>Assets.</i>  |               |
|---|----|----------|----|----|---|---------------|
| Capital Account—  |    |          |    |    | Endowments—   |               |
| College .. .. .   | .. | 166,631  | 2  | 8  | College—  | £             |
| Boys' High School .. .. .   | .. | 96,129   | 0  | 11 | Classical School reserves .. .. .                         | 141,440       |
| Girls' High School .. .. .  | .. | 10,607   | 14 | 10 | Chemistry and physics .. .. .                             | 5,050         |
| Medical School .. .. .  | .. | 15,401   | 17 | 0  | Superior education .. .. .                                | 33,443        |
| Museum, Library, and School of Technical Science .. .. .                | .. | 73,470   | 14 | 11 | Boys' High School .. .. .                                 | 96,788        |
| General—  |    |          |    |    | Girls' High School .. .. .                                | 8,645         |
| School of Engineering and Technical Science Maintenance Account .. .. . | .. | 203      | 6  | 2  | Medical School .. .. .                                    | 12,011        |
| School of Art Maintenance Account .. .. .                               | .. | 577      | 2  | 4  | Museum, Library, and School of Technical Science .. .. .  | 52,805        |
| Museum Maintenance Account .. .. .                                      | .. | 20       | 9  | 7  | General—  |               |
| Museum Guide-book Sinking Fund Account .. .. .                          | .. | 110      | 0  | 0  | School of Engineering Buildings Loan Account .. .. .      | 1,717         |
| Museum Buildings Sinking Fund Account .. .. .                           | .. | 400      | 0  | 0  | Public Library Maintenance Account .. .. .                | 474           |
| Public Library—Postle Bequest (Capital) Account .. .. .                 | .. | 1,666    | 8  | 6  | Investments on mortgages and debentures (general) .. .. . | 14,000        |
| Emily S. Foster Memorial Fund .. .. .                                   | .. | 69       | 17 | 7  | Investments on debentures (memorial prizes) .. .. .       | 450           |
| Helen Macmillan Brown Memorial Fund .. .. .                             | .. | 100      | 0  | 2  |   |               |
| Thomas Miller Prize Fund .. .. .  | .. | 104      | 7  | 4  |   |               |
| Joseph Haydon Prize Fund .. .. .  | .. | 264      | 17 | 7  |   |               |
| Bank of New South Wales—  |    |          |    |    |   |               |
| No. 2 Account <i>Dr.</i> £18,600  | 0  | 0        |    |    |   |               |
| General Account <i>Cr.</i> 17,110                                       | 19 | 5        |    |    |   |               |
|   |    | 889      | 0  | 7  |   |               |
| Plus outstanding cheques .. .. .  | .. | 177      | 10 | 10 |   |               |
|   |    | 1,066    | 11 | 5  |   |               |
|   |    | £366,823 | 11 | 0  |   |               |
|   |    |          |    |    |   | £366,823 11 0 |

## EDUCATIONAL ASSETS UNDER THE CONTROL OF THE BOARD.

| Department.  | Government Valuations (to take effect as at 31st March, 1918). | Paid on Account of Additions, not yet included in Government Valuation. | Total.  |
|--|--|---|---------|
|  | £  | £   | £       |
| College (including engineering department) .. .. . | 83,605   | 1,556   | 85,161  |
| Boys' High School .. .. .                          | 25,340   | ..  | 25,340  |
| Boys' High School boardinghouse .. .. .            | 6,720  | ..  | 6,720   |
| Girls' High School .. .. .                         | 14,490   | ..  | 14,490  |
| School of Art .. .. .                              | 9,405  | ..  | 9,405   |
| Museum (buildings only) .. .. .                    | 10,000   | ..  | 10,000  |
| Public Library .. .. .                             | 12,000   | ..  | *12,000 |
|  | 161,560  | 1,556   | 163,116 |

\* Subject to a first mortgage of £3,500 to the Public Trustee.

GEORGE H. MASON, Registrar.  
EDWARD EVANS, Accountant.

## E. REPORT OF THE UNIVERSITY OF OTAGO, 1917.

(The University of Otago Ordinance, 1869.)

*Visitor.*—His Excellency the Governor-General.

*Council.*

Appointed by His Excellency the Governor-General in Council—Hon. Sir J. Allen, M.A., K.C.B.; J. Roberts, Esq., C.M.G. (Vice-Chancellor); J. Ross, Esq.

Elected by graduates—Rev. A. Cameron, B.A. (Chancellor); T. K. Sidey, Esq., B.A., LL.B., M.P.; Rev. Professor W. Hewitson, B.A.; Robert Church, Esq., M.D., Ch.B.

Elected by the professors—W. B. Benham, Esq., D.Sc., M.A., F.R.S.; Henry Lindo Ferguson, Esq., M.A., M.D., F.R.C.S.I., L.K.Q.C.P.I.

Elected to represent Otago Hospital Board, J. H. Walker, Esq.; elected by teachers in primary schools, W. Eudey, Esq.; elected by the Otago Education Board, P. McKinley, Esq., M.A.; elected by High School Boards, J. C. Stephens, Esq.; elected by the Southland Education Board, T. MacGibbon, Esq.; elected by School Committees, L. D. Ritchie, Esq.; elected by teachers of secondary schools, W. J. Morrell, Esq., M.A., Oxon; elected by Dunedin City Council, W. D. Stewart, Esq., LL.B.

*Staff.*

*Professors.*—Physics—Robert Jack, M.A., D.Sc., Ph.D. Göttingen; Anatomy—William Percy Gowland, M.D., B.S., F.R.G.S.; Mental and Moral Philosophy—Francis Wallace Dunlop, M.A. (N.Z.), Ph.D. Jena; English Language and Literature—Thomas Gilray, M.A., Hon. LL.D., F.R.S.E.; Biology—William Blaxland Benham, D.Sc., M.A., F.R.S.; Mining—James Park, M.Am.Inst.M.E., M.Inst.M.M., F.G.S.; Physiology—John Malcolm, M.D., Ch.B.; Mathematics, Pure and Applied—David James Richards, M.A.; Dentistry—Henry Percy Pickerill, M.D., Ch.B., M.D.S., L.D.S., R.C.S., absent on military duties (O. V. Davis, *locum tenens*); Surgery—Louis Edward Barnett, M.D., C.M. F.R.C.S.; also one emeritus professor; Geology and Mineralogy—William Noel Benson, D.Sc., B.A., F.G.S.; Medicine—Daniel Colquhoun, M.D., F.R.C.P., M.R.C.S.; Pathology—William Stewart Roberts, M.R.C.S.; Ophthalmology—Henry Lindo Ferguson, M.A., M.D., F.R.C.S.I., L.K.Q.C.P.I.; Metallurgy and Assaying—Daniel Black Waters, A.O.S.M.; Home Science and Domestic Arts—Winifred L. Boys-Smith; Chemistry—John Kenneth Harold Inglis, M.A., D.Sc., F.I.C.; Bacteriology and Public Health—Sydney Taylor Champaloup, M.B., Ch.B., B.Sc., P.H.; Clinical Pathology—Alexander Murray Drennan, M.B., Ch.B., F.R.C.P.; Classics—Thomas Dagger Adams, M.A.; History and Economics, H. D. Bedford, M.A., Litt.D.; Modern Languages—G. E. Thompson, M.A.

Lecturers, Tutors, and Demonstrators, thirty.

*Registrar*—H. Chapman, Esq., B.A.

THE CHANCELLOR OF THE UNIVERSITY OF OTAGO TO HIS EXCELLENCY THE GOVERNOR-GENERAL.

YOUR EXCELLENCY,—

I have the honour herewith to submit a report on the proceedings of the University of Otago for the year ended 31st December, 1917.

*The Teaching Staff.*—The Council has to deplore the death, under tragic circumstances, of Dr. H. D. Bedford, Professor of Economics and History. Professor Bedford was a distinguished graduate of the University, was Lecturer on Economics since 1907, and in 1915 was appointed to the professorship of Economics and History. He was a clear and inspiring teacher; his writings on economic problems showed originality of thought and deep study, whilst as a public speaker he was endowed with rare eloquence. His death, almost at the threshold of his career, is a severe loss to the University. I also regret to record the death during the year of Dr. F. Ogston, who was appointed to the staff of the Medical School in 1886, and who had done useful work as Lecturer on Public Health and Professor of Medical Jurisprudence. Further changes on the staff have been occasioned through the resignation by Mr. J. Dunbar of the lectureship on Greek, a position which he had occupied with much success since 1907; also through the vacation of the Chair of Mathematics by Professor D. J. Richards. During the year also the Council considered it advisable to appoint a Professor of Classics, and this important chair was entrusted to Mr. T. D. Adams, M.A., who since 1907 had acted with conspicuous success as Lecturer on Latin.

The Council has considered it fitting to delay filling the Chair of Mathematics and the Chair of Economics and History until more settled times are reached. In the meantime arrangements have been made by which Professor Thompson is teaching the mathematics classes, and Archdeacon Woodthorpe the classes in economics and history. Temporary appointments have also been made necessary by the fact that Professor Adams enlisted for active service. In his absence the Latin classes are being taught by Miss M. I. Turnbull, and the Greek classes by Mr. K. A. Saunders.

*Bursaries.*—The Council desires to place on record its appreciation of the action of the Hon. the Minister of Public Health in increasing to eight the number of bursaries awarded to the final-year students in medicine. This action should help to promote the work of the Medical School, and also to assist the medical services of the Dominion.

It is with pleasure that I am able to record that a bursary scheme has also been instituted in connection with the Dental School. Owing to the generosity of Mr. T. K. Sidey, M.P., and the dentists of New Zealand, a sum of more than £1,800 (including the Government subsidy) has been made available, and thirteen holders of dental bursaries are now in attendance at the school. The funds available will provide bursaries for these students over a course of four years, but will not be sufficient to enable the Council to offer bursaries at the commencement of next year. In view of the shortage of dentists and of the national importance of the proper care of the teeth, the Council trusts that Your Excellency may see fit to provide for a permanent scheme of dental bursaries.

*Home Science School.*—The Council begs to draw Your Excellency's attention to the urgent necessity for new buildings for the Home Science School. This school has developed very rapidly, and at the present time there are fifty-eight students in attendance. The only accommodation provided, however, consists of a portion of the old Mining School, which is in a very dilapidated condition, and is totally unfitted for present requirements. The Council has an excellent site for a new school on Tannahill, and it is sincerely hoped that the Government may agree to erect the necessary buildings without delay.

*Finance.*—I have to record the satisfaction of the Council in the passing of an amendment to the Otago University Reserves Act, 1904. Under this amendment the whole of the rents received from the Council's reserves is paid to the University, and this has considerably relieved the financial difficulties in which the Council was placed. Owing, however, to the fact that the new Medical School buildings involved the Council in a debt of over £5,000, the finances of the University will be straitened for some years to come. The Council is still labouring under a debenture debt of £7,000, which I trust the Government may liquidate in the near future.

*The War.*—More than five hundred University students are now on active service at the front, and seventeen members of the staff are also serving with the colours. Your Excellency will, I feel sure, join with the Council in expressing sympathy with the parents and relatives of those who have fallen, and in congratulating those who have won military honours. The Council feels assured that the traditions of the University will be nobly upheld by its soldier sons.

ANDREW CAMERON, Chancellor.

## EXTRACT FROM THE REPORT OF THE DEAN OF THE FACULTY OF ARTS AND SCIENCE ON SESSION 1917.

## Students attending lectures whether terms kept or not—

|  | Males. | Females. | Total. |
|--|--------|----------|--------|
| Matriculated students—   |        |          |        |
| Graduates ... ..   | 21     | 7        | 28     |
| Undergraduates ... ..  | 259    | 172      | 431    |
| All matriculated students ... ..                                   | 280    | 179      | 459    |
| Non-matriculated students ... ..                                   | 39     | 75       | 114    |
| All students attending lectures ... ..                             | 319    | 254      | 573    |
| Exempt students not attending lectures (not included above) ... .. | 12     | 5        | 17     |
| Grand total of all students ... ..                                 | 331    | 259      | 590    |
| Courses taken—   |        |          |        |
| Arts (as for B.A., M.A., &c.) ... ..                               | 73     | 134      | 207    |
| Science (as for B.Sc., M.Sc., &c.) ... ..                          | 16     | 10       | 26     |
| Law (as for LL.B., LL.M., &c) ... ..                               | 16     | ...      | 16     |
| Commerce (as for B.Com. &c.) ... ..                                | 20     | 13       | 33     |
| Medicine (as for M.B., Ch.B.) ... ..                               | 182    | 43       | 225    |
| Dentistry (as for B.D.S.) ... ..                                   | 3      | 6        | 9      |
| Engineering (as for B.E., Civil, Mechanical, or Electrical) ... .. | 9      | ...      | 9      |
| Mining engineering (as for degree) ... ..                          | ...    | ...      | ...    |
| Home science ... ..  | ...    | 48       | 48     |
| Totals ... ..  | 319    | 254      | 573    |

*Scholarships.*—University Junior Scholarships, 9; University National Scholarships, 24; Taranaki Scholarships, 3; Senior University Scholarships, 2; University Bursaries, 97; other scholarships and exhibitions, including 25 in home science, 33; educational bursaries, 8; Training College studentships, 117: total, 293.

I am glad to say that, notwithstanding the large number of our undergraduates that have gone to the war, the numbers in the majority of the classes were well maintained, and in some classes the normal attendance was exceeded. This is due largely, although not entirely, to a very pleasing feature in our University life—the yearly increasing numbers of women availing themselves of the advantages of University education. The statistics already given show that last session there were 259 women in attendance, as compared with 331 men. Of the 259 women, 43 were students of medicine.

In considering the provisional agenda paper for the meeting of the Board of Studies held in November, 1917, the Faculty of Arts and Science adopted several resolutions, among the more important being the three following:—

(1.) Mr. Tibbs, a member of the Senate, having proposed at a meeting of the Senate that in certain subjects, such as languages and mathematics, students should be allowed to pass for B.A. and B.Sc. on the Entrance Scholarship papers of the New Zealand University, on the motion of the Dean the following resolution was unanimously adopted: “The Faculty considers Mr. Tibbs’s proposal very objectionable, and indeed wholly inadmissible, on the grounds (a) that it would introduce two standards for degrees in Arts and Science, and (b) that in the majority, if not in all, of the subjects mentioned by Mr. Tibbs the work done in the University colleges is both much more extensive and more difficult in character than any work that can possibly be undertaken by the high schools without interfering in a very serious degree with the legitimate work of these schools.”

(2.) In regard to the proposal before the Senate to count the languages at the “repeat” stage as one subject, the member of the Faculty unanimously opposed this attempt to degrade the study of languages and literature.

(3.) In respect of the resolution of the Board of Studies with regard to the time-limit for the Honours Examination, the members of the Faculty were unanimous in thinking that “an option of an additional year for students preparing for honours is very desirable.”

## EXTRACT FROM THE REPORT OF THE DEAN OF THE MEDICAL FACULTY.

The year that has just passed is a very notable one in the history of the school, as it is marked by the opening of the new Medical School buildings, in which the teaching of the subjects for the second and third professional examinations was carried on for the three terms of the academic year. The buildings have proved well suited for the purposes for which they were designed, and without the extra accommodation they afford it would have been impossible to carry out the instruction which has this year been given.

The provision for this extra assistance has been made by an extra grant from the Public Health Department for public-health work in bacteriology, and by Dr. Drennan’s undertaking the lectures in medical jurisprudence to set free the salary previously paid for this subject to meet the cost of a whole-time assistant in pathology. We have the promise of the Minister that the contributions of the Public Health Department for work done in the University laboratories will in future be on a more satisfactory basis; but we have to look forward to further increases in future in the staff of both laboratory departments, and with a museum to create, the cost of the pathological department is certain to grow. In this connection it is eminently desirable that

the Council should secure the two cottages facing Frederick Street as a site for the post-mortem block, which is much needed to complete the pathological department.

On the whole the work of the school has run smoothly, though the result of the Intermediate Examination has led to our making some recommendations to the Senate of the New Zealand University, which I trust will bear fruit.

The entering class this year is again large. Forty-eight are taking the first year's work here, and we do not know how many may join later after taking the Intermediate subjects in other centres. The number of girls entering for medicine is not so large as for the previous two years, but in five years' time the question of placing so many women graduates will be a difficult one, and it is possible that it may be a solution of our difficulties in obtaining an adequate supply of teachers in the laboratory departments.

In spite of my repeated representations to Cabinet I was unable to secure exemption for second-year students, and the class has been much depleted by the action of the ballot. Only about a dozen men are left out of forty who were in the class a year ago, and the number of male graduates in 1921 will be very small.

The number of graduates in the period under review is thirty-three, and they have all been absorbed in the military or civil service of the country. The percentage of passes reflects great credit on the work not only of the students themselves but of your teaching staff.

Various rearrangements have been made in the classes and methods adopted to increase the efficiency of the teaching.

The Minister of Public Health intimated his wish to increase the number of Dominion Scholars to eight, and seven are now in residence at the Dunedin Hospital carrying out the duties which make the position such a valuable one from an educational point of view.

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#### EXTRACT FROM THE REPORT OF THE DEAN OF THE MINING FACULTY.

The war still continues to take a heavy toll of our undergraduates, and the session of 1917 opened with only eight students for the full course. Of these, two were in their first year, three in their second year, and three in their third year. At the end of the session the three second-year men volunteered for active service. The present session has started with seven new students, but there is little hope of much recovery in our attendance till the war is over, as most of our undergraduates enlist as soon as they reach the military age. The excellent system of bursaries in connection with the Dental School, School of Domestic Science, and Canterbury School of Engineering has not yet been extended to the Otago School of Mining Engineering.

At the annual term examination all passed except one, who failed in senior mathematics. As in 1916, the work of Professor Waters, who was absent on active service in France with the New Zealand Tunnelling Corps, was carried on by the Dean.

During the year eighty-seven samples of rocks and minerals were tested in the laboratory for miners and settlers free of charge, and sixty-six samples of ores, coal, rock phosphate were analysed at schedule rates.

The total number of associates of the Mining School is ninety-nine, of whom ninety-four were alive in 1914. Of these ninety-four, no less than thirty-two have responded to their country's call—a high proportion when account is taken of the fact that most of the older graduates are over military age. In the last three years and a half over thirty of our undergraduates have gone on active service. Owing to all the available graduates being at the front, the Dean was unable to find men to fill three good posts that offered during 1917.

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#### EXTRACT FROM THE REPORT OF THE ACTING DIRECTOR OF THE DENTAL SCHOOL FOR THE YEAR 1917.

Three students for the Bachelor of Dental Surgery have been in attendance. The amount of clinical work performed for patients attending the hospital is as follows: Number of fresh patients, 325; number of patients treated, 347; number of patients' attendances, 612; total number of operations, 1,854.

*Mechanical Dentistry Course.*—At the commencement of the autumn term a special course in mechanical dentistry was established; the number was limited to six, which number was reached in the winter term. Although there were four applications for vacancies, it was considered inadvisable to increase the number in view of the anticipated increase in number of students for 1918. This course produced £63 in fees for the year.

*Charitable Dental Work.*—During the year the Otago Branch of the N.Z. Dental Association approached the Hospital and Charitable Aid Board pointing out the necessity for charitable dental work and the need for a whole-time man, as the students were so few in number. A conference on this matter took place between the Hospital Board, the Otago Branch of the N.Z. Dental Association, and the University Council, and as an outcome the Hospital and Charitable Aid Board increased the subsidy to £400 so that a whole-time man could be appointed.

*Bursaries.*—Mr. T. K. Sidey's gift of £400 enabled a bursary scheme to materialize. This sum, together with the amount collected by the bursary-collecting committee, has resulted in fifteen bursaries being allotted.

*Curriculum.*—The curriculum for the certificate of proficiency was referred back from the Senate earlier in the year to the Dental Faculty, New Zealand Dental Association, and the Board of Studies. A curriculum was drawn up by the New Zealand Dental Association's curriculum committee, which was agreed to with slight alterations by the Faculty and the Board of Studies, and has now passed the Senate.

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#### EXTRACT FROM THE REPORT OF DEAN OF FACULTY OF HOME SCIENCE.

I am glad to be able to report that the year which ended on the 31st December, 1917, was a very satisfactory one on the whole, in spite of the insufficient accommodation at Studholme House





## STATEMENT OF RECEIPTS AND PAYMENTS FOR YEAR ENDED 31ST DECEMBER, 1917.

## BUILDING FUND ACCOUNT NO. 2.

| <i>Receipts.</i>   |                |             | <i>Payments.</i>                      |                |             |
|--|----------------|-------------|---------------------------------------|----------------|-------------|
|  | £              | s. d.       |                                       | £              | s. d.       |
| Balance on 31st December, 1916                                       | 384            | 1 0         | Fletcher Bros. account, main contract | 8,388          | 0 0         |
| General Account, being accrued salary of Dr. Drennan whilst on leave | 1,015          | 9 8         | Fletcher Bros. account, fittings      | 3,325          | 0 0         |
| Sundry donations   | 334            | 3 0         | Furnishings                           | 516            | 3 8         |
| Government subsidies   | 6,499          | 8 4         | Apparatus                             | 464            | 16 3        |
| Amount advanced on loan  | 5,000          | 0 0         | Sundry expenses                       | 149            | 2 4         |
| Balance  | 147            | 10 3        | Mason and Wales, architect's fees     | 300            | 0 0         |
|  |                |             | Salary, Clerk of Works                | 100            | 0 0         |
|  |                |             | Interest on loan                      | 137            | 10 0        |
|  | <u>£13,380</u> | <u>12 3</u> |                                       | <u>£13,380</u> | <u>12 3</u> |

## SUMMARY OF SEPARATE ACCOUNTS.

| Account.                        | Balance at 31st December, 1916. | Receipts to 31st December, 1917. | Payments to 31st December, 1917. | Deficiency of Income for 1917. | Surplus of Income for 1917. | How disposed of.                        | Balance carried forward. |
|---------------------------------|---------------------------------|----------------------------------|----------------------------------|--------------------------------|-----------------------------|---|--------------------------|
|                                 | £ s. d.                         | £ s. d.                          | £ s. d.                          | £ s. d.                        | £ s. d.                     |   | £ s. d.                  |
| Arts and General Medical School | Dr. 918 2 3                     | 17,409 10 1                      | 16,735 19 8                      | ..                             | 673 10 5                    | ..                                      | Dr. 244 11 10            |
|                                 | ..                              | 7,371 17 4                       | 11,515 5 5                       | 4,143 8 1                      | ..                          | Transferred to Arts and General Account | ..                       |
| Mining School..                 | ..                              | 1,131 15 6                       | 1,888 11 2                       | 756 15 8                       | ..                          | Ditto                                   | ..                       |
| Dental School..                 | ..                              | 1,066 3 8                        | 1,461 9 9                        | 395 6 1                        | ..                          | "                                       | ..                       |
| Museum ..                       | ..                              | 815 5 0                          | 938 3 9                          | 120 3 9                        | ..                          | "                                       | ..                       |
| Home Science School             | Dr. 170 17 8                    | 2,463 12 10                      | 1,905 4 2                        | ..                             | 558 8 8                     | ..                                      | Cr. 387 11 0             |
| Building Fund, No. 2            | Cr. 348 1 0                     | 12,849 1 0                       | 13,380 12 3                      | 531 11 3                       | ..                          | ..                                      | Dr. 147 10 3             |

## SCHOLARSHIP AND PRIZE FUND ACCOUNT, FOR YEAR ENDED 31ST DECEMBER, 1917.

| Trust.                          | Balance, 31st December, 1916. |             | Interest.       | Total.           | Payments (Scholarships and Prizes). | Bank Charge. | Balance, 31st December, 1917. |                 |                  |            |
|---------------------------------|-------------------------------|-------------|-----------------|------------------|-------------------------------------|--------------|-------------------------------|-----------------|------------------|------------|
|                                 | £                             | s. d.       |                 |                  |                                     |              | Capital.                      | Income.         | Total.           |            |
|                                 | £                             | s. d.       | £               | s. d.            | £                                   | s. d.        | £                             | s. d.           | £                | s. d.      |
| Richardson                      | 997                           | 7 6         | 43 6 6          | 1,040 14 0       | 30 0 0                              | 2 5          | 973 2 3                       | 37 9 4          | 1,040 14 0       | 0 0        |
| Walter Scott                    | 446                           | 8 8         | 18 11 4         | 465 0 0          | 10 0 0                              | 0 11         | 415 9 11                      | 39 9 2          | 465 0 0          | 0 0        |
| Taieri                          | 516                           | 0 11        | 21 8 1          | 537 9 0          | ..                                  | 1 0          | 481 16 8                      | 55 11 4         | 537 9 0          | 0 0        |
| Macandrew                       | 1,200                         | 0 5         | 52 6 1          | 1,252 6 6        | 35 0 0                              | 2 6          | 1,178 17 6                    | 38 6 6          | 1,252 6 6        | 0 0        |
| Women's                         | 690                           | 3 3         | 30 11 2         | 720 14 5         | ..                                  | 1 10         | 688 9 5                       | 32 3 2          | 720 14 5         | 0 0        |
| Stuart                          | 126                           | 0 7         | 5 9 2           | 131 9 9          | 1 10 0                              | 0 3          | 122 13 2                      | 7 6 4           | 131 9 9          | 0 0        |
| Ulrich                          | 89                            | 12 1        | 3 8 7           | 93 0 8           | 2 3 0                               | 0 3          | 83 13 11                      | 7 3 6           | 93 0 8           | 0 0        |
| Parker                          | 52                            | 16 2        | 2 0 3           | 54 16 5          | ..                                  | 0 1          | 50 10 6                       | 4 5 10          | 54 16 5          | 0 0        |
| Macgregor                       | 145                           | 18 8        | 6 4 2           | 152 2 10         | ..                                  | 0 5          | 139 19 4                      | 12 3 1          | 152 2 10         | 0 0        |
| Leask                           | 53                            | 4 8         | 2 0 5           | 55 5 1           | ..                                  | 0 1          | 50 0 0                        | 5 5 0           | 55 5 1           | 0 0        |
| Batchelor                       | 119                           | 0 9         | 5 9 3           | 124 10 0         | ..                                  | 0 3          | 119 14 6                      | 4 15 3          | 124 10 0         | 0 0        |
| Dental Bursary Fund (donations) | 517                           | 6 0         | 0 8 1           | 517 14 1         | ..                                  | ..           | 430 9 1                       | 87 5 0          | 517 14 1         | 0 0        |
|                                 | <u>4,953</u>                  | <u>19 8</u> | <u>191 3 15</u> | <u>5,145 2 9</u> | <u>78 13 0</u>                      | <u>10 0</u>  | <u>4,734 16 3</u>             | <u>331 3 65</u> | <u>5,145 2 9</u> | <u>0 0</u> |

## PUBLIC HEALTH BURSARY.

|          | £  | s. d. |                                    | £          | s. d.      |
|----------|----|-------|------------------------------------|------------|------------|
| Treasury | .. | ..    | ..                                 | 50         | 0 0        |
|          |    |       | Payment to holder, C. S. Hicks     | ..         | 25 0 0     |
|          |    |       | Refund to Public Health Department | ..         | 25 0 0     |
|          |    |       |                                    | <u>£50</u> | <u>0 0</u> |

## SIR GEORGE GREY SCHOLARSHIP.

|          |    |    |    |     |     |                                     |    |     |     |
|----------|----|----|----|-----|-----|-------------------------------------|----|-----|-----|
| Treasury | .. | .. | .. | £50 | 0 0 | Payment to holder, A. J. Fairmaid.. | .. | £50 | 0 0 |
|----------|----|----|----|-----|-----|-------------------------------------|----|-----|-----|

## BALANCE-SHEET ON 31ST DECEMBER, 1917.

| <i>Liabilities.</i>  | £              | s.       | d.        | <i>Assets.</i>  | £              | s.       | d.        |
|--|----------------|----------|-----------|---|----------------|----------|-----------|
| Capital Account—   |                |          |           | Debentures—   |                |          |           |
| Sales of property .. ..  | 3,801          | 14       | 9         | Stock Exchange .. ..  | 1,800          | 0        | 0         |
| Dunedin Savings-bank donation .. ..                              | 6,500          | 0        | 0         | Dunedin City Tramways .. ..   | 2,689          | 9        | 0         |
| Wolf Harris Endowment .. ..                                      | 2,100          | 0        | 0         | Borough of Mornington .. ..   | 700            | 0        | 0         |
| Benmore Exchange .. ..   | 255            | 0        | 0         | New Zealand Government .. ..  | 10,060         | 0        | 0         |
| Subscribed fund .. ..  | 2,249          | 0        | 0         | Borough of Gisborne .. ..   | 200            | 0        | 0         |
| Lothian bequest .. ..  | 600            | 0        | 0         | Sundry debtors—   |                |          |           |
| Unexpended balances of special accounts—                         |                |          |           | Education Department—   |                |          |           |
| Anatomical grant .. ..   | 69             | 6        | 3         | Subsidy on accountant's donation due                                  | 150            | 0        | 0         |
| British Medical Association—Book grant                           | 28             | 18       | 6         | Capitation on commerce classes due                                    | 43             | 18       | 6         |
| Chamber of Commerce—Prize grant .. ..                            | 7              | 8        | 0         | Capitation on home-science classes due                                | 304            | 2        | 10        |
| Chemistry Apparatus Fund .. ..                                   | 68             | 7        | 0         | Warden of Studholme House, for insurance .. ..                        | 5              | 18       | 0         |
| Hocken Library book grant .. ..                                  | 155            | 16       | 2         | Warden of Studholme House, for one-third Miss Anderson's salary .. .. | 58             | 6        | 8         |
| Public Analyst's laboratory grant .. ..                          | 11             | 19       | 6         | University of New Zealand, for students' fees .. ..                   | 174            | 7        | 0         |
| Technological Branch grant .. ..                                 | 0              | 1        | 0         | Four professors, rent accrued .. ..                                   | 60             | 0        | 0         |
| University of New Zealand grant .. ..                            | 166            | 10       | 4         | Satterthwaite, rent accrued .. ..                                     | 4              | 11       | 0         |
| Bacteriology Special Account .. ..                               | 128            | 13       | 5         | Cash in hand .. ..  | 3              | 14       | 6         |
| Pathology Special Account .. ..                                  | 9              | 3        | 2         | Cash in bank .. ..  | 241            | 8        | 7         |
| Sundry creditors—  |                |          |           | Arts and General Account— <i>Dr.</i> balance ..                       | 244            | 11       | 10        |
| Amount due to medical bursars .. ..                              | 20             | 2        | 0         |   |                |          |           |
| Fees due to professors .. ..                                     | 143            | 9        | 6         |   |                |          |           |
| Hospital Board, one-tenth dental patient's fees .. ..            | 24             | 4        | 10        |   |                |          |           |
| Income-tax Department Account, Professor Sale's income-tax .. .. | 13             | 2        | 6         |   |                |          |           |
| Home Science School— <i>Cr.</i> balance .. ..                    | 387            | 11       | 0         |   |                |          |           |
|  | <u>£16,740</u> | <u>7</u> | <u>11</u> |   | <u>£16,740</u> | <u>7</u> | <u>11</u> |
| Debentures owing by University .. ..                             | £7,000         | 0        | 0         |   |                |          |           |

## F. REPORT OF THE CANTERBURY AGRICULTURAL COLLEGE, 1917.

(The Canterbury College and Canterbury Agricultural College Act, 1896.)

*Visitor.*—His Excellency the Governor-General.*Board of Governors.*

Appointed by His Excellency the Governor-General—W. F. M. Buckley, Esq., M.A.

Elected by members of the Legislature—H. A. Knight, Esq. (Chairman); R. W. Loohhead, Esq.; and Hon. D. Buddo, M.P.

Elected by governing bodies of agricultural and pastoral associations—J. Deans, Esq.; T. Blackley, Esq.; and B. Tripp, Esq.

*Staff.**Director.*—R. E. Alexander.*Lecturer on Veterinary Science.*—A. Taylor, M.A., M.R.C.V.S.*Lecturer on Biology.*—F. W. Hilgendorf, M.A., D.Sc.*Lecturer on Chemistry.*—L. J. Wild, M.A., B.Sc., F.G.S.*Lecturer on Applied Mathematics.*—(Vacant).

## REPORT OF DIRECTOR (ABRIDGED).

SIR,—

I have the honour, by direction of the Board of Governors, in pursuance of the Canterbury College and Canterbury Agricultural College Act, to submit the following report on the work of the institution for the year ended 31st December, 1917.

Forty-five students were enrolled in 1917, or three more than in 1916. The attendance is still affected by war conditions. I am glad to be able to state that the work of the students on the farm and in the College continues to be satisfactory. The competition for the scholarships and prizes offered by the Board was very keen. It is also satisfactory to know that three of the students in attendance last year were keeping terms for B.Sc. in Agriculture under the New Zealand University. Two of these students have to go into camp at the beginning of 1918, and this will seriously interfere with their studies.

Twenty-one students left during the year—eight at the end of their first year, nine during their second and third year—and four completed the full course, and, having passed all examinations, were awarded the diploma.

We are again indebted to public bodies and friends for presenting the College with valuable trophies to be given as prizes to the students. These gifts are much appreciated by both staff and students.

Only one returned soldier has so far taken advantage of the arrangement made in October, 1916, with the Minister in Charge of the Returned Soldiers' Department, whereby the Board offered to provide five scholarships, of the value of £20 each, to returned soldiers anxious and capable of taking a course at the College.



|                            |    | STATEMENT OF BALANCES. |    |    |                                   |    | Bank. |    |                    |
|----------------------------|----|------------------------|----|----|-----------------------------------|----|-------|----|--------------------|
| <i>Accounts.</i>           |    | £                      | s. | d. |                                   |    | £     | s. | d.                 |
| General Account, credit    | .. | 1,889                  | 12 | 0  | Credit, balance, 31/12/17, as per |    |       |    |                    |
| Investment Account, credit | .. | 41                     | 5  | 7  | pass book                         | .. | 652   | 13 | 11                 |
|                            |    |                        |    |    | Deposit in Post Office Savings-   |    |       |    |                    |
|                            |    |                        |    |    | bank                              | .. | 1,000 | 0  | 0                  |
|                            |    |                        |    |    | Interest accrued in Post Office   |    |       |    |                    |
|                            |    |                        |    |    | Savings-bank                      | .. | 32    | 5  | 0                  |
|                            |    |                        |    |    |                                   |    |       |    | 1,684 18 11        |
|                            |    |                        |    |    | Less outstanding cheques          | .. |       |    | 254 1 4            |
|                            |    |                        |    |    |                                   |    |       |    | <u>£1,480 17 7</u> |
|                            |    |                        |    |    |                                   |    |       |    | <u>£1,480 17 7</u> |

R. E. ALEXANDER, Director.

Examined and found correct.—R. J. COLLINS, Controller and Auditor-General.

## No. 3.—DETAILED TABLES.

TABLE M1.—STUDENTS ON THE BOOKS OF THE AFFILIATED INSTITUTIONS.

|  | Auckland University College. | Victoria University College. | Canterbury College. | Otago University. | Totals for 1917. |
|--|------------------------------|------------------------------|---------------------|-------------------|------------------|
| <b>I. Attending lectures (whether terms were kept or not)—</b>         |                              |                              |                     |                   |                  |
| <b>(1.) Matriculated students—</b>                                     |                              |                              |                     |                   |                  |
| <b>(a.) Graduates—</b>   |                              |                              |                     |                   |                  |
| Men .. .. .  | 3                            | 4                            | 5                   | 21                | 33               |
| Women .. .. .  | 5                            | 6                            | 5                   | 7                 | 23               |
| Total graduates attending lectures                                     | 8                            | 10                           | 10                  | 28                | 56               |
| <b>(b.) Undergraduates—</b>  |                              |                              |                     |                   |                  |
| Men .. .. .  | 178                          | 125                          | 122                 | 259               | 684              |
| Women .. .. .  | 89                           | 134                          | 115                 | 172               | 510              |
| Total undergraduates attending lectures                                | 267                          | 259                          | 237                 | 431               | 1,194            |
| <b>(c.) All matriculated students (a) and (b)—</b>                     |                              |                              |                     |                   |                  |
| Men .. .. .  | 181                          | 129                          | 127                 | 280               | 717              |
| Women .. .. .  | 94                           | 140                          | 120                 | 179               | 533              |
| Total matriculated students attending lectures                         | 275                          | 269                          | 247                 | 459               | 1,250            |
| <b>(2.) Non-matriculated students—</b>                                 |                              |                              |                     |                   |                  |
| Men .. .. .  | 82                           | 19                           | 150                 | 39                | 290              |
| Women .. .. .  | 132                          | 32                           | 123                 | 75                | 362              |
| Total non-matriculated students attending lectures                     | 214                          | 51                           | 273                 | 114               | 652              |
| <b>(3.) All students attending lectures (1) and (2)—</b>               |                              |                              |                     |                   |                  |
| Men .. .. .  | 263                          | 148                          | 277                 | 319               | 1,007            |
| Women .. .. .  | 226                          | 172                          | 243                 | 254               | 895              |
| Total of all students attending lectures                               | 489                          | 320                          | 520                 | 573               | 1,902            |
| <b>II. Exempt students not attending lectures, not included above—</b> |                              |                              |                     |                   |                  |
| Men .. .. .  | 12                           | 20                           | 6                   | 12                | 50               |
| Women .. .. .  | 2                            | 17                           | 1                   | 5                 | 25               |
| Total exempt students  | 14                           | 37                           | 7                   | 17                | 75               |
| <b>III. Total of all students (I and II)—</b>                          |                              |                              |                     |                   |                  |
| Men .. .. .  | 275                          | 168                          | 283                 | 331               | 1,057            |
| Women .. .. .  | 228                          | 189                          | 244                 | 259               | 920              |
| Grand total of all students, 1917                                      | 503                          | 357                          | 527                 | 590               | 1,977            |
| Grand total of all students, 1916                                      | 536                          | 362                          | 459                 | 628               | 1,985            |
| Difference   | -33                          | -5                           | 68                  | -38               | -8               |

TABLE M2.—COURSES TAKEN BY STUDENTS ATTENDING LECTURES AT UNIVERSITY COLLEGES IN 1917.

| Course.   | Men. | Women. | Total. | Percentage. |
|---|------|--------|--------|-------------|
| Arts and Teacher's Certificate (as for B.A., M.A., &c.)                                   | 250  | 470    | 720    | 43.9        |
| Science (as for B.Sc., M.Sc., &c.)  | 48   | 23     | 71     | 4.3         |
| Law (as for LL.B., LL.M., &c.)  | 153  | 4      | 157    | 9.6         |
| Commerce (as for B.Com., &c.)   | 100  | 53     | 153    | 9.3         |
| Music (as for B.Mus.)   | 3    | 42     | 45     | 2.7         |
| Medicine (as for M.B., &c.)   | 196  | 45     | 241    | 14.7        |
| Dentistry (as for B.D.S.)   | 4    | 6      | 10     | 0.6         |
| Engineering (as for B.E., Civil, Mechanical, or Electrical, and Engineering Certificates) | 182  | 1      | 183    | 11.2        |
| Agriculture (exclusive of Students at Lincoln Agricultural College during year)           | 1    | ...    | 1      | 0.1         |
| Home science  | ...  | 48     | 48     | 2.9         |
| Architecture  | 10   | 1      | 11     | 0.7         |
| Totals  | 947  | 693    | 1,640  | 100.0       |

TABLE M3.—SCHOLARSHIPS, BURSARIES, EXHIBITIONS, AND STUDENTSHIPS HELD AT THE AFFILIATED INSTITUTIONS IN 1917.

| Scholarships, &c.                  | Auckland University College. | Victoria University College. | Canterbury College. | Otago University. | Total. |
|------------------------------------|------------------------------|------------------------------|---------------------|-------------------|--------|
| Junior University Scholarships     | 7                            | 2                            | 5                   | 9                 | 23     |
| University National Scholarships   | 12                           | 8                            | 8                   | 24                | 52     |
| Taranaki Scholarships              | ...                          | 3                            | ...                 | 3                 | 6      |
| Senior University Scholarships     | 5                            | 1                            | 5                   | 2                 | 13     |
| University Bursaries               | 48                           | 62                           | 39                  | 97                | 246    |
| Educational Bursaries              | 6                            | 13                           | 10                  | 8                 | 37     |
| Sir George Grey Scholarships       | ...                          | 1                            | ...                 | ...               | 1      |
| Other scholarships and exhibitions | 4                            | 1                            | 1                   | 33*               | 39     |
| Training-college studentships      | 116                          | 116                          | 107                 | 117               | 456    |
| Total for 1917                     | 198                          | 207                          | 175                 | 293               | 873    |
| Total for 1916                     | 189                          | 202                          | 167                 | 299               | 857    |
| Difference                         | 9                            | 5                            | 8                   | -6                | 16     |

\* Including 25 home-science bursaries.

TABLE MA.—SUMMARY OF ACCOUNTS.  
Receipts (exclusive of Special Trusts) for the Year 1917.

| University College.               | From Government.                                    |    |    |                                    |    |                                    |       |            |    |  |    |                        | Total. |                                      |       |                |                |    |        |    |   |       |    |    |       |    |   |        |    |   |
|-----------------------------------|---|----|----|------------------------------------|----|------------------------------------|-------|------------|----|--|----|------------------------|--------|--------------------------------------|-------|----------------|----------------|----|--------|----|---|-------|----|----|-------|----|---|--------|----|---|
|                                   | Statutory Grant and Income from National Endowment. |    |    | Grants for Buildings and Fittings. |    | Grants for Material and Apparatus. |       | Subsidies. |    | Scholarship and Bursary Payments, and Miscellaneous. |    | Total from Government. |        | Rents from Endowments, and Interest. | Fees. | Donations, &c. | Miscellaneous. |    |        |    |   |       |    |    |       |    |   |        |    |   |
|                                   | £   | s. | d. | £                                  | s. | d.                                 | £     | s.         | d. | £  | s. | d.                     |        |                                      |       |                |                | £  | s.     | d. | £ | s.    | d. |    |       |    |   |        |    |   |
| Auckland ..                       | 11,511  | 10 | 7  | ..                                 | .. | ..                                 | 150   | 0          | 0  | 841  | 0  | 1                      | 12,515 | 9                                    | 9     | 1,385          | 9              | 4  | 2,011  | 10 | 0 | 150   | 0  | 0  | 308   | 19 | 5 | 16,371 | 8  | 6 |
| Victoria (to 31st March, 1918) .. | 10,674  | 17 | 7  | ..                                 | .. | ..                                 | 150   | 0          | 0  | 2,176  | 10 | 0                      | 13,001 | 7                                    | 7     | 255            | 3              | 1  | 1,058  | 3  | 0 | 152   | 10 | 0  | 1     | 5  | 8 | 14,468 | 9  | 4 |
| Canterbury ..                     | 4,511   | 10 | 7  | 645                                | 0  | 0                                  | 125   | 12         | 3  | 100  | 0  | 0                      | 441    | 17                                   | 1     | 5,823          | 19             | 11 | 2,728  | 4  | 6 | 150   | 0  | 0  | 4,658 | 18 | 4 | 27,280 | 13 | 2 |
| Otago ..                          | 6,674   | 17 | 7  | ..                                 | .. | ..                                 | 7,194 | 8          | 4  | 1,734  | 10 | 7                      | 15,603 | 16                                   | 6     | 10,861         | 17             | 2* | 8,495  | 17 | 6 | 1,940 | 10 | 10 | 344   | 13 | 7 | 37,246 | 15 | 7 |
| Total of four University colleges | 33,372  | 16 | 4  | 645                                | 0  | 0                                  | 138   | 11         | 4  | 7,594  | 8  | 4                      | 5,193  | 17                                   | 9     | 46,944         | 13             | 9  | 26,422 | 0  | 0 | 2,393 | 0  | 10 | 5,313 | 17 | 0 | 95,367 | 6  | 7 |

\* Including £1,800 paid by the Presbyterian Church.

Expenditure (exclusive of Special Trusts) for the Year 1917.

| University College.               | From Government. |    |           |        |  |    |                        |    |                            |       |           |    | Total. |            |    |               |    |                |       |    |    |     |    |    |       |    |   |         |    |    |
|-----------------------------------|------------------|----|-----------|--------|--|----|------------------------|----|----------------------------|-------|-----------|----|--------|------------|----|---------------|----|----------------|-------|----|----|-----|----|----|-------|----|---|---------|----|----|
|                                   | Administration.  |    | Salaries. |        | Sites, Buildings, Equipment and Apparatus, &c. |    | Material Renewals, &c. |    | Expenditure on Endowments. |       | Interest. |    |        | Libraries. |    | Scholarships. |    | Miscellaneous. |       |    |    |     |    |    |       |    |   |         |    |    |
|                                   | £                | s. | d.        | £      | s.   | d. | £                      | s. | d.                         | £     | s.        | d. |        | £          | s. | d.            | £  | s.             | d.    | £  | s. | d.  | £  | s. | d.    |    |   |         |    |    |
| Auckland ..                       | 1,161            | 14 | 8         | 10,419 | 19   | 8  | 2,755                  | 18 | 5                          | 10    | 19        | 2  | 173    | 8          | 3  | 3             | 3  | 0              | 206   | 8  | 8  | 1   | 10 | 0  | 1,013 | 3  | 2 | 15,746  | 5  | 0  |
| Victoria (to 31st March, 1918) .. | 1,331            | 13 | 11        | 10,505 | 9  | 6  | 224                    | 2  | 9                          | 372   | 7         | 0  | ..     | ..         | .. | 449           | 0  | 6              | 340   | 3  | 10 | 50  | 0  | 0  | 576   | 2  | 6 | 13,399  | 19 | 6  |
| Canterbury ..                     | 2,054            | 17 | 7         | 11,685 | 10   | 8  | 13,226                 | 13 | 11                         | 1,781 | 4         | 5  | 411    | 0          | 2  | ..            | .. | ..             | 642   | 10 | 11 | 201 | 15 | 0  | 1,682 | 1  | 3 | 32,982  | 3  | 10 |
| Otago ..                          | 2,027            | 3  | 9         | 20,591 | 0  | 4* | 15,148                 | 6  | 0                          | 1,317 | 7         | 11 | 1,112  | 3          | 5  | ..            | .. | ..             | 268   | 0  | 9  | 75  | 0  | 0  | 1,793 | 15 | 7 | 43,062  | 17 | 9  |
| Total of four University colleges | 6,575            | 9  | 11        | 53,202 | 0  | 2  | 31,355                 | 1  | 1                          | 3,481 | 18        | 6  | 1,696  | 11         | 10 | 452           | 3  | 6              | 1,577 | 9  | 5  | 328 | 5  | 0  | 5,065 | 2  | 6 | 105,191 | 6  | 1  |

\* Including £3,476 lss. 10d. fees.

Approximate Cost of Paper.—Preparation, not given; printing (11,100 copies), £40.

By Authority: MARCUS F. MARKS, Government Printer, Wellington.—1918.

Price 9d.]