# EDUCATION: UNIVERSITY OF NEW ZEALAND

(PAPERS RELATING TO).

[In continuation of E.-5, 1883.]

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

## No. 1.

SUPPLEMENTARY CHARTER granting and declaring that Degrees in Science conferred by the University of New Zealand shall be recognized as Academic Distinctions and Rewards of Merit, and entitled to Rank, Precedence, and Consideration in the United Kingdom and in the British Colonies and Possessions.

VICTORIA, by the Grace of God, of the United Kingdom of Great Britain and Ireland Queen, Defender of the Faith, Empress of India To all to whom these presents shall come, greeting

Whereas, by our Charter under the Great Seal of our United Kingdom of Great Britain and Ireland, bearing date at Westminster the twenty-ninth day of July, 1876, in the fortieth year of our reign, We did will, grant, and declare that the degrees of Bachelor and Master in Arts and Bachelor and Doctor in Law, Medicine, and Music, thereafter to be granted or conferred by the University of New Zealand, should be recognized as academic distinctions and rewards of merit, and be entitled to rank, precedence, and consideration in our United Kingdom and in our colonies and possessions throughout the world, as fully as if the said degrees had been granted by any University of our said United Kingdom

And whereas our Trusty and Well-beloved Sir James Prendergast, Knight, Chief Justice of the

And whereas our Trusty and Well-beloved Sir James Prendergast, Knight, Chief Justice of the Supreme Court of New Zealand, the Officer Administering the Government of our said Colony and its dependencies, hath forwarded to Us, through one of our Principal Secretaries of State, a petition from the Chancellor and Senate of the University of New Zealand, dated the twentieth of June, 1882, praying for an extension of our said Charter of the twenty-ninth day of July, 1876, and for the recognition of degrees in Science to be conferred by the said University.

And whereas under and by virtue of the provisions of an Act, the short title whereof is "The New Zealand University Act 1874 Amendment Act, 1883," the Senate of the University of New Zealand is now empowered to confer the degrees of Bachelor and Doctor in Science

Now know ye that We, taking the premises into consideration, do will, grant, and declare that the degrees of Bachelor and Doctor in Science hereafter to be granted or conferred by the University of New Zealand shall be recognized as academic distinctions and rewards of merit, and be entitled to rank, precedence, and consideration in our United Kingdom and in our colonies and possessions throughout the world, as fully as if the said degrees had been granted by any University of our said United Kingdom.

In witness whereof We have caused these our Letters to be made Patent. Witness Ourself at Westminster, the first day of December, in the forty-seventh year of our reign.

By Warrant under the Queen's Sign-Manu: 1.

# No. 2.

## ANNUAL REPORT OF THE SENATE.

In compliance with the 28th clause of "The University Act, 1874," the Senate makes the following report to His Excellency the Governor of the proceedings of the University since the date of the last report.

The Senate met on the 27th February, 1884, at Nelson, which time and place were fixed at the last annual meeting of the Senate, as prescribed by the University Act.

The Senate has, at the present meeting, made certain amendments in the statutes at present in force. The statutes passed with a view to giving effect to these amendments are herewith submitted for the approval of the Governor

The Senate, besides holding this its annual meeting, held a special meeting in Christchurch in April, 1883, for the purpose of considering the reports of the Examiners for degrees and senior

scholarships.

At that meeting three Bachelors of Arts were admitted to the degree of Master of Arts, eighteen undergraduates to the degree of Bachelor of Arts, two Bachelors of Arts to the degree of Bachelor of Laws, five senior scholarships were awarded, twenty-three undergraduates passed the first section of the examination for the degree of Bachelor of Arts.

In accordance with the resolution of the Senate passed last year, the first meeting of Convocation was held at Christchurch, on the 1st March, 1884.

At that meeting of Convocation, Mr Frederick Fitchett, M.A., was elected a Fellow of the University in the room of Mr. C. C. Bowen. Several resolutions on matters of importance were also passed, which have been laid before the Senate, and action has been taken thereon.

A meeting of Convocation has been called to meet at Dunedin on the 13th January, 1885. It will be of advantage to the Senate to have the resolutions and opinions of Convocation on several

subjects before it at its next annual meeting.

The Bowen prize of 1883 has been awarded to James Davidson Davis, of the Auckland Uni-

versity College.

A statement of the income and expenditure of the University for the year 1883, audited in

accordance with the law, is herewith presented.

The reports of the Examiners in England for the examinations of 1883 have not yet been The reports of the Examiners in England for the examinations of 1883 have not yet been received in detail, but, from a telegraphic communication, it appears that the following numbers will be added to the roll of the University at a special meeting to be held for the purpose, on the receipt of the reports referred to To the degree of Master of Arts, eight Bachelors of Arts, to the degree of Bachelor of Laws, two Bachelors of Arts, to the degree of Bachelor of Arts, sixteen undergraduates, six Senior Scholars, eight Junior Scholars.

The number of graduates, after examination, on the roll of the University, with the above additions, will be as follows Masters of Arts, 29, Bachelors of Arts, 56; Bachelors of Laws (not included in above), 3 total, 88.

The number of undergraduates on the roll of the University at present is 352.

HENRY JOHN TANCRED,

1st April, 1884.

Chancellor

#### Enclosure 1 in No. 2.

## DETAILS OF EXPENDITURE.—GENERAL ACCOUNT.\*

|    | DEIAIDS OF                          | CALEND | ,T.T.  | OI   | L.,- | GENERALI MCCCCRI.                |        |    |    |
|----|-------------------------------------|--------|--------|------|------|----------------------------------|--------|----|----|
| 1. | Senate Sessions-                    | £s     |        | d. 1 | 7    | Examinations-                    | £      | s. | d. |
|    | Expenses of Fellows                 | 284 1  | .3     | 9    |      | (a) November Examinations, 1882— |        |    |    |
|    | Registrar .                         | 23 1   | 2      | 6    |      | Supervisors' fees                | 25     | 0  | 0  |
|    | Messenger                           | 2      | 2      | 0    |      | Expenses and stationery          | 18     | 11 | 8  |
|    | Printing                            | 23     | 1      | 3    |      | Printing                         |        | 18 |    |
|    | Furniture                           | 3 1    | .0     | 7    |      | Examiners' fees                  | 10     | Ó  | Ō  |
| 2. | Salaries and Office—                |        |        |      |      | Committee expenses               |        | 14 | Ó  |
|    | Registrar                           | 400    | 0      | 0    |      | Miscellaneous                    |        |    | 6  |
| 1  | Rent                                | 80     | 0      | 0    |      | (b) December Examinations, 1882— | •      |    | -  |
|    | Messenger and cleaning .            | 14 1   | .5     | 0    |      | Supervisors' fees                | 40     | 0  | 0  |
|    | Clerical assistance                 | 10     | 0      | 0    | 1    | Expenses and stationery          | 36     | 9  | 0  |
| 3. | General Printing—                   |        |        |      | 1    | Printing                         | 31     | 3  | 0  |
| •  | Minutes of Senate                   | 33     | 3      | 0    | i    | Examiners' fees                  | 119    | 10 | 0  |
|    | Calendar                            | 64     | 7      | 6    | ı    | Advertising                      | 32     | 16 | 9  |
|    | Diplomas                            | 30 1   | .6     | 0    | ĺ    | Committee expenses .             | 17     | 13 | 3  |
|    | Miscellaneous                       | 33     | 9      | 0    | l    | Miscellaneous                    |        |    | 6  |
| 4. | General Advertising—                |        |        |      | ı    | (c) November Examinations, 1883— |        |    |    |
|    | Presentation of diplomas            | 2 1    | 7      | 6    | ı    | Examiners' fees                  | 450    | 0  | 0  |
| 5. | Transfer—                           |        |        |      | ı    | Agent's fee                      | 52     | 10 | 0  |
|    | Scholarship account (including £375 |        |        |      | ı    | Printing .                       | 83     | 15 | 6  |
|    | for 1882)                           | 1 875  | 0      | 0    |      | Telegram and miscellaneous       | 34     | 14 | 0  |
| 6. | Miscellaneous-                      |        |        |      | Į    | (d) December Examinations, 1883— |        |    |    |
|    | Stationery .                        | 8 1    | 4      | 6    |      | Printing                         | 10     | 17 | 0  |
|    | Postage and telegrams               | 3      | 5      | 10   |      | Advertising                      | 38     | 12 | 9  |
|    | Presentation of diplomas            |        | 6      | 0    |      | Clerical assistance .            | 10     | 0  | 0  |
|    | Bowen prize                         | 5      | $^{2}$ | 1    |      |                                  |        |    |    |
|    | Miscellaneous                       | 39 1   | .8     | 5    | ı    |                                  | £3,984 | 0  | 10 |
|    |                                     |        |        |      |      |                                  |        | -  | -  |

\*[Summarized from full details in the original.]

Note.—The total cost of the examinations of 1882 was: November Examination £785 5s. 2d. December Examination, £310 9s. 3d.: total, £1,095 14s. 5d.

|  | 3  |   |   |  |  |  |  |  |  |  |  |  |
|--|--|---|---|--|--|--|--|--|--|--|--|--|
| DETAILS OF EXPENDITURE.—SCHOLARSHIP ACCOUNT.*  |  |   |   |  |  |  |  |  |  |  |  |  |
| 1. Scholarships—<br>1880   | £ s. d.  <br>90 0 0  | Brought forward   | £ s. d.<br>1,316 5 0                                  |  |  |  |  |  |  |  |  |  |
| 1881   | 600 0 0 2. Refun   | ds—   | •   |  |  |  |  |  |  |  |  |  |
| 1882   |  | General Account   | 1 125 0 0   |  |  |  |  |  |  |  |  |  |
| Carried forward  | 1,316 5 0  |   | £2,441 5 0  |  |  |  |  |  |  |  |  |  |
| [* Summarized from full details in the original.]  |  |   |   |  |  |  |  |  |  |  |  |  |
|  |  |   |   |  |  |  |  |  |  |  |  |  |
| in the same of the |  |   |   |  |  |  |  |  |  |  |  |  |
| Balance-sheet.—General Account.  |  |   |   |  |  |  |  |  |  |  |  |  |
| 1883.<br>Jan. 1. To Balance from 1882  | £ s. d.   1883.<br>1,087 17 5 Jan. 1.                              | By Senate   | £ s. d.<br>337 0 1                                    |  |  |  |  |  |  |  |  |  |
| Government grant   | 3,000 0 0  | Salaries and office   | 504 15 0  |  |  |  |  |  |  |  |  |  |
| Refund from Scholarship Account  | 1,125 0 0  | General printing<br>General advertising   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |  |  |  |  |  |  |  |  |  |
| Interest on fixed deposit<br>Sale of Calendar  | $\begin{bmatrix} 25 & 0 & 0 \\ 11 & 6 & 6 \end{bmatrix}$           | Transfer to Scholarship Account<br>Miscellaneous  | $1,875  0  0 \\ 74  6  10$                            |  |  |  |  |  |  |  |  |  |
| $ \begin{array}{c} \textbf{Fees} \\ \textbf{Ad eunden} \end{array} $   | 7 7 0  | Examinations Balance in Bank  | 1,028 5 11  |  |  |  |  |  |  |  |  |  |
| Degrees  | 89 5 0   | Dalance in Dank   | 1,623 13 9  |  |  |  |  |  |  |  |  |  |
| Examination<br>Matriculation   | $egin{array}{c ccc} 86 & 2 & 0 \\ 170 & 2 & 0 \\ \end{array}$      |   |   |  |  |  |  |  |  |  |  |  |
| Convocation<br>Miscellaneous   | $\begin{bmatrix} 3 & 0 & 0 \\ 2 & 14 & 8 \end{bmatrix}$            |   |   |  |  |  |  |  |  |  |  |  |
| Miscellaneous  | E5,607 14 7  |   | 05 005 14 5   |  |  |  |  |  |  |  |  |  |
|  |  |   | £5,607 14 7   |  |  |  |  |  |  |  |  |  |
| To Balance brought down, 1st Jan., 1884  | 1,623 13 9   |   |   |  |  |  |  |  |  |  |  |  |
| BALANCE  1883.  Jan. 1. To Balance from 1882  Transfer from General Account Interest on fixed deposit Interest (miscellaneous)  To Balance brought down, 1st Jan., 1884  |  | By Scholarships Transfer to General Account Balance on fixed deposit Balance in bank £503 18 9 Less unpresented cheque 15 0 0 |   |  |  |  |  |  |  |  |  |  |
| BALANCE  1883.  Jan. 1. To Balance from 1882  Interest  To Balance brought down, 1st. Jan.,  1884  | SHEET—BOWEN PRI  £ s. d. 1883. 131 1 1 5 17 11 £136 19 0 £136 19 0 | ZE ACCOUNT. By Balance in bank  | £ s. d.<br>136 19 0<br>£136 19 0                      |  |  |  |  |  |  |  |  |  |
| GENERAL BALANCE-SHEET.   |  |   |   |  |  |  |  |  |  |  |  |  |
| 1883.<br>Jan. 1. To Balance from 1882  | £ s. d.   1883.<br>8,061 8 11 Jan. 1.                              | By Expenditure—   | £ s. d  |  |  |  |  |  |  |  |  |  |
| Receipts— General Account  | 3,394 17 2   | General Account<br>Scholarship Account  | 2,109 0 10  |  |  |  |  |  |  |  |  |  |
| Calculate Account  | 210 10 4   | D-1   | $1,316 \ 5 \ 0$                                       |  |  |  |  |  |  |  |  |  |

General Account 3,394 17 2 Scholarship Account 1,316 5 0 Scholarship Account ... 312 13 4 Balances—

Bowen Prize Account 5 17 11 General Account 1,623 13 9 Scholarship Account 488 18 9 Bowen Prize Account 136 19 0 Fixed deposit 6,100 0 0 E11,774 17 4

To Balance brought down, 1st Jan., 1884

I have audited this account and have compared the items with the various vouchers and find it correct. The balances are accurately stated. J Ollivier, 15th February, 1884.

Provincial District Auditor.

#### Enclosure 2 in No. 2.

#### STATUTES OF THE NEW ZEALAND UNIVERSITY

 ${\it Statute \ amending \ Statute \ ``Of \ the \ Degree \ of \ Bachelor \ of \ Arts.''}$ 

Section I., paragraph 1, of the statute "Of the Degree of Bachelor of Arts" is hereby repealed, and the following is hereby repealed, and the following

enacted in lieu thereof:-

The subjects of examination for the degree of Bachelor of Arts shall be—1. Latin language and literature. 2. Greek language and literature. 3. English language and literature. 4. Modern languages and literature. 5. General history and political economy 6. Jurisprudence and constitutional history 7 Mathematics. 8. Physical science, to include—(a) Heat and radiant heat, and (b) Sound and light, or, at the option of the candidate, electricity and magnetism. 9. Chemistry, 10. Natural science—Geology and migraploys. 9. Chemistry. 10. Natural science—Geology and mineralogy 11. Natural science Biology. 12. Mental science. The subjects shall be divided as follows:—

(The rest as at present in force.)
Section I., subsection 4, of the statute "Of the Degree of Bachelor of Arts" is hereby repealed, and the following

enacted in lieu thereof:--

(4.) Modern Languages and Literature. - (Two papers.)-French or German or Italian, at the option of the candidate.
(a.) Passages for translation from and into English and the

(a.) Passages for translation from and into English and the language chosen. (b.) Questions on grammar and composition, questions on a period of the literature of the language questions on selected authors.

Section I., subsection 10, of the same statute is hereby repealed, and the following enacted in lieu thereof (10.) Natural Science.—Geology and Mineralogy.—(Two papers.)—Systems of crystallization physical properties and chemical composition of the more important minerals, origin and classification of rocks formation of rock-beds and structure of rock-masses denudation and movements of the ture of rock-masses denudation and movements of the surface of the earth; chronological classification of rocks; the origin of the surface features of the earth and the laws

the origin of the surface features of the earth—and the laws and generalizations of paleeontology
NOTE.—The division of this subject into two papers will be left to the discretion of the Examiner.

(11.) Natural Science.—Biology.—(Two Papers.)—A. General principles of biology, including those of physiology of distribution and of classification. B. One of the following:—

(11.) Zeuger: Animal membelogy, the principal observations. (1.) Zoology: Animal morphology, the principal characters of the chief groups of animals, and the main facts of their distribution in time and place: (2.) Botany Vegetable morphology, including histology, the principal characters of the chief groups of plants, and the main facts of their distribution in time and place.

Note.—A candidate in Physical Science, Chemistry, or Natural Science, will be required, on presenting himself for examination, to furnish to the Supervisor a certificate from a teacher of the subject or branch subject that he has passed

a teacher of the subject or branch subject that he has passed a practical examination in such subject, as follows:—For a practical examination in such subject, as lonows:—For Geology: Determination by physical characters of minerals and rocks; determination of fessils construction of geological sections. For Zoology Dissection and microscopical examination of types of four different groups of invertebrate animals and of two different groups of vertebrate animals. For Botany: Dissection and microscopical examination of types of four different groups of counterprise plants and of types of four different groups of cryptogamic plants and of eight different orders of phanerogamic plants. The certificate must be given by a teacher in an affiliated

institution, who shall have been authorized by the Chancellor to grant certificates. A fee of one guinea shall be paid by the candidate to the teacher for conducting the practical examination, unless the candidate be attending the lectures

of such teacher.

Statute amending Statute "Of Senior Scholarships." Sections V. and VI. of the statute "Of Senior Scholar-

ships" are hereby repealed, and the following enacted in

lieu thereof :-

The Senior Scholarship examination shall be held at the same time as the examination for the degree of Bachelor of Arts, and shall be open to competitors who are taking the whole examination for the degree of Bachelor of Arts, or who are taking the second section of that examination.

are taking the second section of that examination.

VI. A candidate may present himself for a Senior Scholarship in any of the subjects or groups of subjects prescribed in Section II. of this statute, although he may not at that time be taking that subject or any subject of that group for his examination for the degree of Bachelor of Arts but no Senior Scholarship shall be awarded to a candidate unless he shall have passed, at the time of his candidature, the examination for the degree of Bachelor of Arts or the second section of that examination. section of that examination.

Statute amending Statute "Of Admissions ad eundem."

Sections I. and II. of the Statute "Of Admissions ad eundem" are hereby repealed, and the following enacted in lieu thereof:-

I. Any person may be admitted without examination as an undergraduate member of the University of New Zealand who shall have passed the matriculation examination, or comwho shall have passed the matriculation examination, or completed any part of his undergraduate course at any of the under-mentioned Universities, namely, Oxford, Cambridge, Glasgow, Aberdeen, St. Andrews, Edinburgh, Dublin, Durham, London, Queen's University of Ireland, Royal University of Ireland, Victoria University Sydney, Melbourne, or Adelaide, or who is an Associate in Arts of either of the Universities of Oxford or Cambridge, and shall be considered of the same standing as regards the keeping of terms only as if he had been an undergraduate member of the University of New Zealand: Provided always that he shall give to the Registrar, to the satisfaction of the Chancellor, evidence of good conduct at any such University versity

II. Any person who shall have been admitted to the degree of Bachelor of Arts, Master of Arts, Bachelor of Medicine, Doctor of Medicine, Bachelor of Laws, Doctor of Laws, Bachelor of Music, Doctor of Music, Bachelor of Science, Doctor of Science, in any of the following Uni-versities, namely, Oxford, Cambridge, Glasgow, Aberdeen, versities, namely, Oxford, Cambridge, Glasgow, Aberdeen, St. Andrews, Edinburgh, London, Dublin, Durham, Queen's University of Ireland, Royal University of Ireland, Victoria University, Sydney, Melbourne, or Adelaide, may be admitted by the Senate to the same degree in the University of New Zealand. Candidates shall, on or before the first day of the meeting of the Senate in any year, lodge with the Registrar as evidence a diploma or calendar of the University to which they have formerly belonged on a contificate versity to which they have formerly belonged, or a certificate of the Registrar or other recognized officer of the said University, together with proof of their identity by means of a statutory declaration or a certificate from a member of the

Statute repealing Statute "Of Terms and Lectures," and making other Provision in lieu thereof

The statute "Of Terms and Lectures" is hereby repealed,

and the following enacted in lieu thereof:—

I. Any student matriculated to the University, whose name shall be upon the books of an affiliated institution, and who shall have attended its lectures and passed its annual examination, shall be deemed to have kept the terms of the year: Provided that attendance at such lectures shall not be year: Provided that attendance at such fectures shall not be compulsory in the case of undergraduates residing more than ten miles from such institution, or who may be engaged in acquiring a profession or trade, or in earning a livelihood Provided further that any student may, on giving notice to the Chancellor, place his name on the books of some affiliated institution other than that at which he may have originally entered.

originally entered.
II. All undergraduates exempted from attendance lectures under the first proviso of Section I. of this statute may instead of passing any College examination, pass an annual examination in three degree subjects, to be conducted by Examiners appointed by the Chancellor for that purpose: Provided that no undergraduate so exempted shall present browled that no undergraduate so exempted snall present himself for examination, either at the annual examination or at the ordinary examinations for the Degree of Bachelor of Arts in any branch of the following subjects, Physical Science, Chemistry, and Natural Science, unless he shall have satisfied the Chancellor that he has been attending a regular course of instruction at some affiliated institution in the subject in which he presents himself for examination: Provided also that in the annual examination every such undergraduate shall pass in not fewer than five separate subjects before he can be admitted to the final examination for the degree of Bachelor of Arts, and that every such undergraduate who shall present himself a second time for examination in any subject shall be required to pass an examination of a higher character than that which he has already passed in the same subject: Provided also that no such undergraduate shall be allowed to pass an examination more than twice in any one subject.

III. All undergraduates who are admitted to an annual examination under this statute shall pay a fee of three guineas for every such annual examination.

Statute amending Statute " Of Honours."

Section III., subsection 1, of the statute "Of Honours" is hereby repealed so far as relates to paragraphs A and B, and the following enacted in lieu thereof:—

A. Latin. (Three papers). (a.) Passages from any lof the best classical Latin authors: questions on grammar, history and antiquities. (b.) Detailed examination in the history literature, and language of a selected period. Accurate know-ledge of the principal works of one prose and one verse author. (c.) Passages for translation from English into Latin prose.

(c.) Passages for translation from English into Latin prose.
B. Greek. (Three papers.) (a.) Passages from any of the best classical Greek authors questions on grammar, history and antiquities. (b.) Detailed examination in the history literature, and language of a selected period. Accurate knowledge of the principal works of one prose and one verse author. (c.) Passages for translation from English into Greek

Statute amending Statute "Of Junior Scholarships."

Section III., subsections 3 and 8, of the statute "Of Junior Scholarships" are hereby repealed, and the following enacted in lieu thereof :-

3. English.—(a.) The matriculation paper. (b.) Paraphrase, illustration and explanation of passages selected from the works of any of the standard English writers general questions on etymology, grammar, and the uses of words also a short essay on some easily understood subject.

8. Natural and Physical Science.—Any two of the follow-

ing:-

(a.) Inorganic Chemistry. (b.) Electricity.

(c.) Sound and Light. (d.) Heat.

(e.) Elementary Mechanics of Solids and Fluids.—Composition and resolution of statical forces: mechanical powers, ratio of the power to the weight in each: centre of gravity laws of motion; laws of motion of falling bodies hydro-

18ws of Hotoli. Taws of Hotoli of Land, (f.) Botany.

1. The morphology histology, physiology, and life-history of Saccharomyces, Bacteria, Protococcus, Closterium, Spirogyra, Penicillium, Mucor, Saprolegnia, Peziza, Agaricus, a fucoid, Nitella (or Chava), Marchantia, a moss, a fern, piane, and the hear-plant.

fucoid, Nitella (or Chava), Marchantia, a moss, a min, pinus, and the bean-plant.

2. The general morphology and classification of angiospermous flowering plants, with especial reference to the following natural orders Orchideæ, Liliaceæ, Gramineæ, Polygoneæ, Scrophularineæ, Boragineæ, Ericaceæ (including Epacrideæ), Compositæ, Rubiaceæ, Umbelliferæ, Onagraceæ, Rosaceæ, Leguminosæ, Malvaceæ, Caryophylleæ, Cruciferæ, and Ranunculaceæ; the modification of roots, stems, leaves, &c.. to different purposes parasitism fertilization of &c., to different purposes parasitism flowers, and modes of dispersion of seeds.

# Statute amending Statute "Of Matriculation."

Section I., subsections 7, 8, 11, 12, 13, of the statute "Of latriculation" are hereby repealed, and the following Matriculation" enacted in lieu thereof:-

7. Algebra (compulsory).—To simple equations, inclusive, with easy problems.

8. Euclid (compulsory).—Books I. and II.

8. Eucua (compulsory).—Books 1. End 11.
11. Mechanics.—Elementary mechanics of solids and fluids. (In this subject the paper as set for Junior Scholarships is compulsory for medical students.)
12. Elementary Physics.—Heat, Sound and light, and

Electricity.

13. Elementary Chemistry.—The non-metallic elements

and the atomic theory.

14. Elementary Biology.—A paper containing questions in both zoology and botany but candidates will not be required to answer questions in more than one subject.

Zoology.—Elements of animal physiology
Botany.—Elements of the morphology and physiology of
flowering plants, including the main characteristics of the
chief native and introduced natural orders.

Statute amending Statute "Of the Preliminary Examination of Medical Students."

Section I., subsection 9, of the statute "Of the Preliminary Examination of Medical Students" is hereby repealed,

and the following enacted in lieu thereof:-(9.) Biology.—As defined for the Degree of Bachelor of

Statute repealing Statute "Of the Degree of Bachelor of Music," and making other Provisions in lieu thereof

The statute "Of the Degree of Bachelor of Music": hereby repealed, and the following enacted in lieu thereof:-

1. A candidate for the degree of Bachelor of Music shall be required to pass the matriculation examination and the first section of the examination for the degree of Bachelor of Arts, and shall also be required to pass a preliminary

examination in music, to write a musical exercise to the satisfaction of the Examiners, and to pass a final examination

in music.

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in music.

2. The subjects of the preliminary examination shall be
(1.) Acoustics. (2.) Counterpoint in not more than three
parts. (3.) Harmony in not more than four parts. For
the purposes of this examination acoustics shall be understood to include the following subjects: Sensation and
external cause of sound. Mode of its transmission. Nature
of wave-motion in general. Application of the wave theory
to sound. Elements of a musical sound. Loudness and
extent of vibration. Pitch and rapidity of vibration.
Measures of absolute and of relative pitch. Resonance.
Analysis of compound sounds. Helmholtz's theory of
musical quality Motion of sounding strings. The pianoforte and other stringed instruments. Motion of sounding
air-columns. Flue- and reed-stops of the organ. Orchestral
wind instruments. The human voice. Interference. Beats.
Helmholtz's theory of consonance and dissonance. Combination-tones. Consonant chords. Construction of the bination-tones. Consonant chords. Construction of the musical scale. Exact and tempered intonation. Equal temperament. Systems of pitch-notation.

No knowledge of mathematics beyond arithmetic shall be

required to satisfy the Examiners in this subject.

3. Any candidate may be admitted to the preliminary examination in music who has previously passed the matriculation examination: Provided that at the time of announcing his intention of presenting himself for the preliminary examination in music he produces a certificate, signed by two or more trustworthy persons, that he has been studying or practising music for two years.

4. The exercise must be a composition on a sacred or secular subject, written for the occasion, and such as would occupy about twenty minutes in performance, and must fulfil the

following conditions:

(1.) That it comprise some portion for a solo voice, and

some portion for a chorus of five real vocal parts;
(2.) That it comprise some specimens of canon and fugue;
(3.) That the whole have an accompaniment for bowed

instruments only with or without organ.

The exercise may be sent in by the candidate at any time subsequently to his having passed the preliminary examinaof the University, and must be accompanied by a written declaration, signed by the candidate, that the work is his own unaided composition.

5. The subjects of the final examination in music shall

be—(1.) Counterpoint in not more than five parts. (2.) Harmony. (3.) Canon in two parts. (4.) Fugue in two parts, especially as to the relation of subject and answer. (5.) Form in composition as exemplified in the sonata. (6.) The pitch and quality of the stops of the organ. (7.) Such knowledge of the quality, pitch, and compass of orchestral instruments as is necessary for reading from score. (8.) The analysis of some classical composition, with regard to harmony and form, the name of which shall be announced by

the Examiners at least six weeks before the date of the examination.

6. Any candidate may be admitted to the final examina-tion in music who has previously passed the preliminary examination, and has satisfied the Examiners with the exercise prescribed in section 4 of this statute, and who has also passed the first section of the examination for the degree of Bachelor of Arts.

7. Candidates who intend to present themselves for examination, either at the preliminary or at the final examination, must give notice in writing to the Registrar not later than the first day of March in the year in which they intend to present themselves for examination.

8. Candidates who intend to present themselves for

8. Candidates who intend to present themselves for examination at the preliminary examination shall pay a fee of five guineas, and candidates who intend to present themselves for examination at the final examination shall pay a fee of ten guineas, at the time of giving notice to the Registrar of their intention to present themselves for examination.

Statute repealing Statute " Of the Degree of Doctor of Music," and making other Provision in lieu thereof The statute "Of the Degree of Doctor of Music"

is hereby

repealed, and the following enacted in lieu thereof:

1. No person shall be admitted to be a candidate for the degree of Doctor of Music unless he shall have been admitted to the degree of Bachelor of Music at least five years previously.

2. A candidate for the degree of Doctor of Music shall be

2. A cannuate for the degree of Doctor of Music shall be required (1) to write an exercise, (2) to pass an examination in the highest branches of musical science.

3. The exercise shall be a composition on a sacred or secular subject, written for the occasion, such as would occupy about forty minutes in performance, and fulfilling the following conditions: following conditions:—
(1.) That it comprise some portion for one or more solo

voices, and some portion for a chorus of eight real vocal parts;

(2.) That it comprise some specimens of canon and of

fugue;
(3.) That it comprise an instrumental overture, or an interlude, in the form of the first movement of a symphony or a sonata;
(4.) That the whole (except some single piece be for voices

alone) have an accompaniment for a full band.

4. The exercise may be sent in to the Registrar at any time after the expiration of five years from the date at which the candidate obtained the degree of Bachelor of Music. The exercise must be accompanied by a written declaration, signed by the candidate, that the work is his own unaided composition.

composition.

5. The subjects of the examination for the degree of Doctor of Music shall be—(1.) Counterpoint in not more than eight parts. (2.) The highest branches of harmony (3.) Canon of various kinds in not more than four parts. (4.) Fugue and double fugue in not more than four parts. (5.) Form in composition. (6.) Instrumentation and scoring of chamber and orchestral music. (7.) The analysis of some classical composition, the name of which shall be announced by the Examiners at least six weeks before the date of the examination. (8.) The art of music historically considered.

6. Candidates who intend to present themselves for examination under this statute must give notice in writing to

amination under this statute must give notice in writing to the Registrar not later than the first day of March in the year in which they intend to present themselves for examination, and shall also, at the time of giving such notice, pay a fee of fifteen guineas.

Statute amending Statute " Of the Degree of Bachelor of Laws."

Laws" is hereby repealed, and the following enacted in lieu thereof:— Section III. of the statute "Of the Degree of Bachelor of

III. Candidates for the degree of Bachelor of Laws, who shall have attained the degree of Bachelor of Arts or Master shall have attained the degree of Bachelor of Arts or Master of Arts, either after examination or ad eundem, may proceed to the degree of Bachelor of Laws by passing an examination in jurisprudence and constitutional history, and by passing the second and third examinations prescribed in Section I. of this statute: Provided that any such graduate in arts may, at his option, take the second and third examinations together, and may add to them or to either of them the examination in jurisprudence and constitutional history: Provided also that any such graduate in arts who history: Provided also that any such graduate in arts who shall produce satisfactory evidence of having already, in his arts course, passed the examination in jurisprudence and constitutional history prescribed by the University of New Zealand or by any University recognized thereby, shall be excused by the Chancellor from examination in one or both of those subjects of those subjects.

Statute amending Statute "Of Professional Education and Examinations in Medicine."

Section XI. of the statute "Of Professional Education and Examinations in Medicine" is hereby repealed, and the following enacted in lieu thereof:-

following enacted in lieu thereof:—

XI. Certificates of instruction in chemistry shall be accepted from any of the following institutions, namely, the University of Otago, Canterbury College, Auckland University College, and the institutions named in Section I. of the statute "Of Admissions ad eundem."

Certificates in subjects of medical instruction other than chemistry shall be accepted from medical schools in New Zealand recognized by the University of New Zealand, from the institutions named in Section I. of the statute "Of Admissions ad eundem," which have established medical schools, and from the medical licensing bodies which are recognized by the General Medical Council of Great Britain.