

REPORT OF THE FINANCE COMMITTEE.

(Submitted 18th September, 1911)

(Mr. Justice Searle)

1. The Committee submits for the information of the Council the accompanying abstract of receipts and expenditure on account of the General Fund for the Quarter ended 30th June, 1911.
(Annexure A.)
2. With reference to the question of establishing a second music scholarship the Committee reports
- that it is of opinion that the revenue derived from the music examinations and the general financial position are not such as to justify the Council in offering two scholarships for regular competition at the present time.
 - that it is of opinion that in view of the fact that there will be funds available owing to no scholarship having been awarded in 1909 and to the small annual surplus at present in connection with the music examinations a second scholarship of the value of not exceeding £75 p.a. for three years might be awarded this year if the Music Committee recommends such award.
3. The Committee had before it the question of the fee to be paid to one of the music examiners who was compelled to return to England the week after his arrival on account of serious illness, and approved of the ordinary fee of £200 being divided as follows: £50 to the examiner in question and the balance of £150 to the remaining five examiners in view of their arranging to perform their colleague's work in addition to their own.
4. The Committee reports that it has considered and disposed of certain applications for refunds of entry fees from candidates prevented by serious illness from sitting for examination.

19. The following Report of the Building Committee, submitted by the Vice-Chancellor in the absence of the Chairman, was adopted:

Report of the Building Committee
(Submitted 18th September, 1911).

The Committee reports that it has had under consideration the question of Architects' fees in respect of the completion of the University Building in view of the fact that the original designs for the Hall etc. for which the architects were paid the usual commission of 2½% in 1905 have been subjected to considerable modification; and it recommends for acceptance as a reasonable compromise the following proposal made by the architects after discussion of the matter with the Committee viz. that a total inclusive fee of £1200 be paid in respect of the present contract.

GENERAL FUND.

Abstract of Receipts and Expenditure during the Quarter ended

30th June, 1911.

Receipts 1.4.1911 - 30.6.1911.

		£	s	d	£	s	d
Examination Fees	June Law Examinations	578	15	0			
	September B. Sc.	16	0	0			
	Music	2,883	3	0			
	Special Centres	<u>77</u>	<u>0</u>	<u>0</u>	3,554	18	0
Fees	Ad eundem degrees	1	0	0			
	Gazette subscriptions		5	0			
	Marks and telegrams	<u>1</u>	<u>3</u>	<u>6</u>		2	8
Govt. Quarterly Grant				1,462	10	0	
Commission on cheques					2	19	1
Miscellaneous					<u>1</u>	<u>0</u>	<u>0</u>
					5,023	15	7

Expenditure 1.4.1911 - 30.6.1911.

Salaries and allowances		447	5	0			
	Travelling expenses	<u>581</u>	<u>6</u>	<u>6</u>	1,028	11	6
Scholarships & Bursaries	Univ. Scholarship	20	0	0			
	Intermediate	290	0	0			
	Matric. & Jun. Cert.	290	0	0			
	Music	<u>250</u>	<u>0</u>	<u>0</u>	850	0	0
Examination Expenses	(Local)	102	6	11			
	(Music)	164	8	9			
	(Commissioners)	90	10	0			
	(do. Music)	<u>105</u>	<u>10</u>	<u>0</u>	462	15	8
Printing & Stationery	Calendar	254	1	7			
	Examination Papers	100	14	0			
	Forms Etc.	<u>134</u>	<u>16</u>	<u>10</u>	489	12	5
Fees	Auditor	10	0	0			
	Legal	<u>4</u>	<u>3</u>	<u>4</u>	14	3	4
Refunds Examination Fees					17	0	0
Sundries (Degree Day, Lighting, Uniforms, Repairs, etc.)					<u>39</u>	<u>3</u>	<u>8</u>
					2,901.6.	7	
Balance on Quarter's Working					2,122.9.	0	

20. The following Preliminary Report of the Special Committee on the raising of the standard of the B.A. Honours Examination was submitted by Professor Ritchie and was adopted:

REPORT (PRELIMINARY) OF THE SPECIAL COMMITTEE ON THE
RAISING OF THE STANDARD OF THE B.A. HONOURS
EXAMINATION.

(Submitted 18th September, 1911.)

(Prof. Ritchie)
(The Vice-Chancellor)

Committee.

The Vice-Chancellor

- | | |
|-----------------|------------------|
| Prof. Beattie | Dr. Macfadyen |
| Prof. Breyer | Prof. Morrison |
| Prof. Hahn | Prof. Notcutt |
| Dr. Jenkins | Prof. Pearson |
| Prof. Knothe | Prof. Ritchie |
| Prof. Mackenzie | Prof. Schönland. |

1. The Committee reports that it has duly considered the question of revising the standard of the B.A. Honours Examination in view of the adoption by the Council of the subjoined resolutions A and F in connection with certain resolutions adopted on the same subject by the Literature and Science Committees (see Report of Joint Literature and Science Committee Par. II C (3)).

RESOLUTIONS.

- A. Candidates who have taken the B.A. Pass Examination in Department I or II shall be allowed to enter for Honours in the same Department the following year by taking the ordinary Pass and Honours papers in the subject selected (i.e. dropping the remaining Pass Examination papers). Such candidates shall be eligible for Scholarships.
- B. Candidates who have passed the B.A. (Pass) Examination in Department III in those subjects which are required to be taken in order to qualify for admission as a candidate for one of the Honours Groups under Department I or II, shall be allowed to enter for Honours in such Group in the following year by taking the ordinary Pass and Honours papers in the subject in question. Such candidates shall be eligible for Scholarships.

2. The Committee has had before it detailed recommendations, drawn up by Sub-Committees, as to the extension or otherwise of the syllabuses in the various Honours Groups and asks leave to refer these recommendations to the different College Senates for an expression of their views, and to report further thereon to the next meeting of the Council.

21. The following Report of the Special Committee appointed to draft detailed recommendations as to the raising of the standard of the Matriculation Examination, submitted by Professor Ritchie, was adopted, to take effect in 1913 except where otherwise recommended in the Report.

(over)

REPORT OF THE SPECIAL COMMITTEE APPOINTED TO DRAFT DETAILED RE-
COMMENDATIONS IN REFERENCE TO THE FOLLOWING RESOLUTION

ADOPTED BY THE COUNCIL AT ITS NOVEMBER MEETING. VIZ.

That the standard of the Matriculation Examination,
and in particular the minimum aggregate for a pass,
be raised.

(Submitted, 18th September, 1911.)

(Prof. Ritchie)

Committee.

Prof. Ritchie (Chairman)
Prof. Mackenzie
Prof. Notcutt
Prof. Morrison
Mr. Whitton

Mr. Littlewood
Mr. du P. le Roux

1. The Committee reports that it is of opinion that at the present time the difference in standard between the Matriculation and Junior Certificate Examinations represents more than one year's study and that the course of study for the Matriculation should in future be definitely regarded as a two years' course beyond the Junior Certificate standard and that the Matriculation standard should be raised accordingly.
 2. The Committee recommends with this end in view
 - (a) that in the case of every subject the minimum required for a pass be raised to 30 per cent of the maximum marks available. (The minima for 1912 are 30% in the case of English and Dutch if taken as principal subject and 25% in the case of all other subjects.)
 - (b) that the minimum aggregate for a pass in the examination as a whole be raised from 33 and a third per cent on the highest aggregate obtainable to 40 per cent on the lower aggregate i.e. (on the standards for 1912) from 750 to 860 marks out of a possible 2250.
 - (c) that in English and Dutch, if taken as a subsidiary subject, the sub-minimum of 35 per cent required in composition be abolished to take effect in 1912.
 - (d) that the following additions be made to the Syllabus in Mathematics:

Algebra. Elementary indices, including the theory and use of four-figure logarithms to base 10. The graphs of the equations

$$y = ax^2 + bx + c, ax + by + c = 0.$$

Geometry. If two triangles have two sides and one angle of the one respectively equal to two sides and one angle of the other, these angles being opposite to equal sides, the angles opposite the remaining equal sides are either equal or supplementary.

The areas of triangles or parallelograms of equal altitude are to one another as their bases.

In a right angled triangle, if a perpendicular be drawn from the right angle to the hypotenuse, the triangles on each side of it are similar to one another and to the whole triangle.

Trigonometry. The definitions of the trigonometrical ratios of an acute angle. The solution of right angled triangles.
- N.B. The Committee does not recommend any change in reference to Arithmetic.

22. In reference to the foregoing Report it was resolved
- (a) To furnish copies to the various Education Departments in the Union and S. Rhodesia for their information.
 - (b) To refer the question of making corresponding changes in the Intermediate Mathematics Syllabus to the Science Committee for report.

23. The following (Second) Report of the Special Committee appointed to consider and report on the question of the granting of Special Certificates in English and Dutch Language and Literature, submitted by Professor Moorrees was adopted, with the substitution of '50 per cent' for '45 per cent' in clause C of the Annexure:

SECOND REPORT OF THE SPECIAL COMMITTEE APPOINTED TO CONSIDER
AND REPORT ON THE QUESTION OF THE GRANTING OF
SPECIAL CERTIFICATES IN ENGLISH AND DUTCH LANGUAGE AND
LITERATURE.

(Submitted, 18th September, 1911,)

(Prof. Moorrees.)

Committee.

Prof. Moorrees (Chairman)	
Mr. Fremantle	Prof. Ritchie
Prof. Macfadyen	Mr. Justice Searle
Prof. Harris	Dr. Viljoen
Prof. Notcutt	Mr. Whitton

The Committee has reconsidered the report submitted by it on 19th June last (see Annexure) with special reference to clause (d) and to the question of an oral examination and recommends that the said report be adopted with the addition of the following clause (f):

- (f) That it be optional for candidates for the Advanced Certificate to present themselves for an oral examination and that, if successful, a statement as to their proficiency in the colloquial use of the language be endorsed on their certificate. The oral examination to be held at University College centres only and to be confined for the present to the Advanced grade.

24. The following Report of the Admissions Committee, submitted by Professor Harris, was adopted:

REPORT OF THE ADMISSIONS COMMITTEE.

(Submitted 18th September, 1911)

(Prof. Harris)

The Committee reports that it has approved of the following applications for admission to the examinations mentioned below, subject to the conditions specified (if any):

The Committee recommends that special certificates be issued by the University in and after 1912 in connection with the Matriculation (or Senior Certificate), the Intermediate, and the B.A. Examinations for proficiency in English (Language and Literature) and in Dutch (Language and Literature) as tested by the ordinary papers in those subjects at the said examinations under the following conditions:

- (a) That the special certificates in connection with the Matriculation and Intermediate Examinations be in respect of the papers in English and Dutch as primary subjects only.
- (b) That the special certificates in connection with the B.A. Examination be in respect of English and Dutch at the Pass Examination only.
- (c) That for each grade there be a First Class and a Second Class Certificate: the minimum required for the First Class Certificate to be 70 per cent and a Second Class Certificate 45 per cent of the maximum marks: the names in each class to be published in alphabetical order.
- (d) That candidates for any one of the above mentioned examinations may enter at the same time for the special language certificates issued in connection therewith on payment of an additional fee of 5/- per subject.
- (e) That in the case of candidates entering for special certificates only the entry fee per subject be as follows:

For the Lower (Matriculation) Certificate	5/-
For the Higher (Intermediate) Certificate	7/6
For the Advanced (B.A. Pass) Certificate	10/-

- (a) To the Intermediate Examination:
1. Doble, Rev. R. (Dublin University Matric. and I Intern. Arts)
 2. Egan, M.H. (R. Univ. Ireland Matric. and I Intern. Arts.)
provided History or Greek be taken as a compulsory subject.
- (b) To the First Survey Examination:
3. Easton, P.T. (London Univ. Matric.) provided the candidate passes in History either of the Matriculation or Intermediate Examination.

25. The following Report of the Music Committee, submitted by Professor Mackenzie, was adopted:

REPORT OF THE MUSIC COMMITTEE.

(Submitted 18th September, 1911)

(Prof. Mackenzie)

1. The Committee reports that on the unanimous recommendation of the Examiners the Music Scholarship of £150 p.a. for three years for 1911 has been awarded to
Adolph Hallis, Private Study, Port Elizabeth.
2. The Committee has received a further unanimous recommendation from the Examiners that a second scholarship should be given to
Phyllis Ward, Training College, Grahamstown,
on the grounds of her "exceptional talents as a violinist".
The Committee recommends that Miss Ward be offered a scholarship of £100 p.a. for three years.

(N.B. This amount is proposed instead of £75 as recommended by the Finance Committee (i) because £75 p.a. is felt to be quite inadequate for a student to maintain herself in London (ii) because further examination of the financial position shows that an amount of not less than £310 is likely to be available owing to no scholarship having been awarded in 1909.)

3. Acting on the recommendation of the Examiners Music Exhibitions of £30 for one year have been awarded to the following:
May Irene Harris, Johannesburg College of Music, Johannesburg (Pianoforte)
Ellen Florence Martin, S.A. School of Voice Production, Cape Town (Singing)
Nancy Frances Phillips, Private Study, Cape Town (Violin)
No other candidate was reported to have reached the standard for an Exhibition.
4. The award of the 16 Bursaries available for 1911 will be reported at the next meeting of the Council.

5. The Committee recommends that the Centres for the Licentiate Examination in 1912 be the same as for 1911, viz. Cape Town, Bloemfontein, Grahamstown, Haritzburg (or Durban*), Pretoria (or Johannesburg*) and Stellenbosch.

(*The centre finally selected to be that at which the number of candidates is greater.)

6. The Committee recommends that six examiners be again appointed for 1912 and that the Associated Board be again requested to select one examiner specially for strings and one for singing.
7. The Committee recommends that an application be acceded to from Miss F. Witt (Music Scholar 1904), who broke off her studies in July 1907 owing to her mother's illness, to be allowed to draw the final instalment of her scholarship (£42) on now resuming her course at the Royal Academy of Music.
8. The Committee has considered several communications on the subject of this year's examinations in Counterpoint and in Harmony and Grammar of Music and has resolved to request the Associated Board (a) to arrange in future for different questions in rudiments of music to be set for Counterpoint and Advanced Harmony candidates respectively (b) to consider the shortening of the papers in the Advanced and Intermediate Divisions of Harmony (c) to supply "bar-marked" copies of the Sonata set for analysis at the Advanced Harmony Examination.
9. With reference to the publication of the lists of pianoforte pieces and studies etc. for 1912 the Committee recommends that the course adopted last year be again followed.
10. The Committee recommends that the following proposal, which was referred to it by the Council for report, be adopted, viz.

That candidates who fail to pass in the Advanced Division of Harmony and Grammar of Music by not more than 5 per cent of the minimum for a pass be allowed to enter in the following year for both the Advanced Harmony and the Licentiate Examinations.

11. The Committee recommends that the following changes be made in the Music Regulations:
 - (a) That a candidate prevented by illness from taking his practical examination in any subject be allowed the same reduction on his entry fee in the following year if he is taking a higher division of such subject as he would at present be allowed if re-entering for the same division.
 - (b) That candidates for Branch A of the Licentiate Examination who do not take Part II of the Final Teaching Examination in Pianoforte in the same year as Part I be allowed the option of taking the viva voce portion of Part I either at the same time as Part II or in the same year as their written papers. at any Licentiate Centre (See Regulation 108).
 - (c) That Regulation 108 be amended by inserting the words put in brackets below, so as to read as follows:

Candidates will also be required to answer a viva voce examination on their written work in Part I of the Examination, in order to satisfy the Examiners that they possess an intelligent knowledge of the subject (and of the pieces and studies named in their papers).

12. (a) The Committee wishes to place on record its appreciation of the action of the examiners in undertaking Mr. Blower's work in addition to their own, on Mr. Blower's having to return to England on account of serious illness and has submitted a recommendation to the Finance Committee on the subject.

(b) As the examinations were already in progress when Mr. Blower's breakdown occurred a large amount of extra work had to be done in the office at a moment's notice in cancelling the arrangements at the various centres and revising time-tables and itineraries, and also at the different centres by the Commissioners; and the Committee recommends (i) that those Commissioners affected be paid the usual allowance for clerical work in respect of the original time-tables which had to be cancelled and (ii) that on the recommendation of the Registrar a bonus of £10 be paid to the Assistant Registrar upon whom the bulk of the additional work fell. The total expenditure involved will not exceed £25 and will be more than covered by the saving of the sixth examiner's travelling expenses while on tour.

26. It was resolved, in connection with Paragraph 12 (a) of the Report of the Music Committee, to forward an expression of the Council's deep sympathy to Mr Blower and his family.
27. The following Report of the Divinity Committee, submitted by Professor Marais, was adopted:

REPORT OF THE DIVINITY COMMITTEE.

(Submitted 18th September, 1911)

(Prof. Marais)

1. The Committee recommends the appointment of the following examiners for the Final B.D. Examination in 1911.

Old Testament	Rev. A.P. Bender & Prof. Marais
New Testament	Rev. J. du Plessis & Rev. B.H. Hampden Jones
Church History	Rev. Dr. Malan & Prof. Moorrees.
Biblical & Historical Theology	Rev. Dr. Jenkins & Rev. Dr. Malan
Christian Apologetics	Prof. Brummer & Rev. Dr. Jenkins

2. The Committee recommends the following special subjects for the Preliminary B.D. Examination in 1912 and the Final B.D. Examination in 1913, respectively:

Preliminary B.D.	Elementary Hebrew (Translation)	
	Genesis XV-XXIV (inclusive)	
	Deuteronomy I-IV	"
	(Pointing) Genesis XV-XVIII	"
Greek Testament	Acts I-XIV	"
	S. Luke XIII-XXIV	"
	I Epistle S ^c John	"
Ethics	Aristotle Ethics I - IV	" (Translation)

Final B.D. Old Testament II Samuel
Psalms I - XLI (inclusive)

New Testament S. Mark
Epistle to Hebrews
Epistle to S. James.

Period of Church History A.D. 451 - 1648

Biblical and Historical Theology Anthropology
(Syllabus as for 1911)

Philosophy and History of Religion Islam
as compared with Christianity

3. The Committee recommends that the syllabus for Hebrew as a subject at the Matriculation Examination be the same as for Greek and that 300 marks be assigned to the subject with a minimum for a pass of 75 marks.

It was further decided to appoint Rev. J.M. Russell, Chairman for the Final B.D. Examination.

25. The following Report of the Special Committee on the Degree of B.Sc. in Agriculture (second year's examination), submitted by Professor Hahn, was adopted:

REPORT OF THE SPECIAL COMMITTEE ON THE DEGREE OF B.Sc.
IN AGRICULTURE (Second Year's Examination).

(Submitted 18th September, 1911)

(Prof. Hahn)

Committee.

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| Prof. Hahn (Chairman) | |
| Prof. Beattie | Prof. Duerden |
| Sir Heiring Beck | Mr. Loundsbury |
| Dr. Juritz | Dr. Percold |
| Prof. Morrison | Mr. Pole Evans |
| Prof. Pearson | Prof. Potts |
| Prof. Schönland | Mr. F.E. Smith |
| Mr. W. Allan | Mr. L. Watermayer. |

The Committee has reconsidered the draft Regulations for the Second Examination for the Degree of B.Sc. in Agriculture in terms of the Council's instructions to it to take into consideration the possibility of curtailing the syllabuses in some of the subjects; and submits the following recommendations:

- A. That the subject "Drawing" be removed from the second year's course and placed in that of the first year.
- H.B. In connection with this recommendation the Committee has appointed a sub-committee to consider the possibility of materially reducing the draft syllabus in Drawing (see *interlogy*) Annexure) or of making it an "optional" subject.
- B. i. That the draft syllabuses in Meteorology, Geology, Chemistry and Surveying (see *Annexure*) be not altered, the Committee being advised that the amount of work required in these subjects is not excessive.

I. METEOROLOGY. (1½ hours).

Atmosphere: its constituents and properties.

Solar Radiation: its measurement; variations; absorption and reflection; general terrestrial effects.

Temperatures of air and soil: their measurement; variation and distribution, especially with reference to South Africa. Temperature Maps.

Atmospheric pressure: its measurement; distribution and variation; high and low pressure systems; relation to weather.

Wind: its causes; general circulation; annual and daily variations; chief types of wind distribution; their effects.

Moisture: its determination; distribution and variation. Condensation and its chief causes; dew; clouds, rain, snow, hail; distribution of rainfall.

Evaporation: its measurement; causes; variation.

Weather : forecasting ; charts ; motion of cyclones and anti-cyclones.
Climate.

Soil : its physical constitution ; capacity for water ; percolation ; capillarity ; temperature and the causes which affect it ; evaporation ; effects of vegetation on the soil and on climate.

II. GEOLOGY. (3 hours).

As for the First B.Sc. Examination in Mining Engineering.

V. CHEMISTRY : First Paper (3 hours) } As for the B.A. Pass Examination. Second Paper (3 hours)

Practical Examination. (Three days).

1. Qualitative analysis of mixtures of salts and minerals.
2. Preparation of some simple organic compound, such as absolute alcohol, ethylic ether, acetaldehyde, ethyl acetate, formic acid, oxalic acid, nitro-cellulose, invert sugar. (The candidate will be expected to prepare one compound from a reasonable selection).
3. The principles of volumetric analysis including a knowledge of :—
 - (a) Acidimetry and alkalimetry, involving the use of solutions of potassium hydroxide, sodium hydroxide, barium hydroxide, oxalic acid, sulphuric acid, hydrochloric acid and sodium carbonate.
 - (b) Oxidation and reduction methods, involving the use of solutions of potassium permanganate, iodine, sodium thiosulphate, potassium cyanide.
 - (c) Precipitation methods, involving the use of solutions of silver nitrate and ammonium thiocyanate.
 - (d) Gravimetric analysis, involving estimation of calcium, barium, magnesium, iron, copper, silver, lead, tin, sulphuric acid, phosphoric acid, and hydrochloric acid.

VI. SURVEYING.

Written Examination. (1½ hours).

Instruments : Use and adjustment of the following :—Chains and tapes, cross staff and optical cross, prismatic compass, protractor, angle meter, plane-table, clinometer, hand and Dumpy levels, and levelling staff.

Chain Surveying : Determination of distance by pacing. Ranging and chaining. Chaining on sloping and uneven ground. Chaining past obstacles. Offsets. Setting out angles by the chain. Survey of a plot of ground by the chain. Field book. Plotting to scale.

Traversing : Pacing the lines of a traverse. Traversing by the aid of the instruments specified in paragraph 1. Setting out and plotting a traverse. Triangulation : Selection and measurement of a base line. Well-conditioned triangles. Measurements of angles by instruments specified in paragraph 1. Calculation of the sides and angles of a triangle.

Levelling and Contouring : Running a line of levels ; level book. Reduction. Longitudinal and cross sections ; plotting sections. Definition and object of contour lines. Methods of carrying out a contour survey. Field sketching ; reduction ; plotting.

Areas : Determination of areas involving triangular and quadrilateral figures, and the approximate determination of areas with curvilinear boundaries. Laying out, parting off and division of land by graphical methods.

Drawing : Plotting to scale the results of the surveying operations specified in the preceding paragraphs.

Practical Examination. (4 hours).

This examination may consist of a *visa voce*, field work and sketching.

11. That the following revised syllabus be adopted for Botany:

III. BOTANY :

Written Examination ; (3 hours).

1. Physiology : A general knowledge of the physiology of growth, nutrition and reproduction. Organs and their functions. Relations of the plant to external conditions. Seed germination.
2. Mycology : The practical study of the following types : Botrytis ; Claviceps ; Cystopus ; Erysiphe ; Exobasidium ; Mycorrhiza ; Peronospora ; Puccinia ; Pythium ; Saccharomyces ; Saprolegnia ; Tilletia ; Ustilago ;
3. Bacteria : Simple morphology and physiology. Laboratory methods of sterilisation culture.
4. Anatomy and histology of typical members of the groups Gymnospermae ; Dicotyledones ; Monocotyledones.
5. The diagnostic characters, principles of sub-division, inter-relationships, geographical distribution and economic importance of the following natural orders : Amaryllidaceae, Asclepiadaceae, Campanulaceae, Caryophyllaceae, Compositae, Coniferae, Crassulaceae, Cruciferae, Cycadaceae, Cyperaceae, Ericaceae, Euphorbiaceae, Ficoideae, Geraniaceae, Gramineae, Iridaceae, Labiatae, Leguminosae, Liliaceae, Malvaceae, Orchidaceae, Polygalaceae, Proteaceae, Ranunculaceae, Restiaceae, Rosaceae, Rubiaceae, Rutaceae, Scrophulariaceae, Solanaceae, Thymelaceae, Umbelliferae.

Practical Examination (one day).

1. The setting up and description of simple physiological apparatus and the performance therewith of elementary experiments illustrating the phenomena of nutrition, respiration and growth.
2. Recognition of the types mentioned under Section 2 above. Mounting for microscopical study and drawing of these types.
3. Simple methods of preparing pure cultures of Bacteria.
4. Simple methods of preparing (with differential staining) microscopical sections of typical examples of root, stem and leaf. These sections to be drawn and interpreted.
5. The determination of the natural orders of Phanerogams detailed in Section 5 above.

iii. That Zoology be added as a subject in the Second Examination, the syllabus to be as follows:

IV. ZOOLOGY.

Written Examination. (3 hours).

1. The subjects of the First B.Sc. Examination syllabus (a higher standard to be required).
2. The following additional groups (or groups treated more fully):
 - (a) Protozoa, including the characteristics and life histories of Protozoan parasites in South Africa.
 - (b) Platyhelminthes with special reference to parasitic Trematodes and Cestodes.
 - (c) Nemathelminthes with special reference to the Ascaridae, Strongylidae, Trichostrongylidae, Filariidae and Anguillulidae and their economic importance.
 - (d) Insecta: The various orders with reference to the following families especially in so far as they are of economic importance in South Africa. Forficulidae, Blattellidae, Mantidae, Phasmodidae, Acrididae, Locustidae, Gryllidae, Termitidae, Mallophaga, Odonata, Psocidae, Ephemeroidea, Hemeroptera, Phryganidae, Thripidae, Formicidae, Apidae, Vespidae, Eumenidae, Tenthredinidae, Cynipidae, Chalcididae, Ichneumonidae, Scarabaeidae, Coccinellidae, Ptinidae, Elateridae, Cantharidae, Bruchidae, Gryllidae, Cerambycidae, Curculionidae, Tenebrionidae, Saturniidae, Bombycidae, Sphingidae, Psychidae, Noctuidae, Pyralidae, Tortricidae, Tineidae, Cecidomyiidae, Culicidae, Simuliidae, Tabanidae, Muscidae, Oestridae, Hippoboscidae, Pulicidae, Pentatomidae, Cimicidae, Cercopidae, Cicadidae, Aphidae, Coccidae, Pediculiidae.
 - (e) Arachnida with special reference to the Sarcoptidae and Ixodidae.
 - (f) Aves with special reference to types of economic importance in South Africa.
 - (g) Mammalia. A general knowledge of South African mammalian fauna.

Practical Examination. (One Day).

1. Identification and classification of typical examples of the groups mentioned in section 2 of the above syllabus.
2. An elementary knowledge of microscopical methods.
3. Dissection and examination of types as prescribed for the B.A. Pass Examination.

iv. That the marks and standards be as follows:

	Maximum	Minimum required.
Meteorology	100	25
Geology	250	62
Botany (Written)	250	62
(Practical)	150	37
Zoology (Written)	250	62
(Practical)	150	37
Chemistry (Two papers each 150)	300	75
(Practical)	250	62
Surveying (Written)	100	25
(Practical)	100	25
Total	1900	760

29. In connection with the foregoing Report Professor Breijer gave notice to move at the next meeting that in all the papers a number of questions be set of which only half shall be required to be answered.

30. The following Report of the Examinations Committee was submitted by Professor Ritchie:

REPORT OF THE EXAMINATIONS COMMITTEE.

(Submitted 18th September, 1911)

(Prof. Ritchie)

1. The Committee reports that it has made the following appointments in connection with the B.A. Examinations of 1911:

Examiners (Internal):

 Greek & Latin
 Dutch I (Honours)

 German II (Pass)

 Prof. van Nie Prof. Reinink
 Prof. Dingemans vice Prof. le Roux

 Prof. Iogeman vice Dr. Bruin

History II (Honours)	} Prof. F.A. Walker vice Mr. J. Edgar, H.A.
I (Pass)	
II (Pass)	
III (Pass)	Prof. Blommaert vice Prof. Fouche Prof. Fouché vice Prof. Blommaert
Economics II (Pass)	Prof. F. Clarke vice Mr. J. Edgar, H.A.
Moderator	
Chemistry (Pass & Hons.)	<i>Dr. J. M. K. T.</i> Prof. Denison vice Mr. J. Muller.

Paragraph 1 was noted.

2. With reference to the present distribution of the B.A. (Literature) Pass and Honours papers among the various internal examiners the Committee is of opinion that it is desirable that it should be empowered to make such changes as may be necessary (in order to ensure that every college presenting Honours students in any subject may have a representative among the Honours examiners in such subject. This was not possible before owing to the fact that the actual entries had not been received.)

Paragraph 2 was adopted, with the omission of the words placed in brackets [...]

- (3) The Committee recommends the following additional appointments of examiners:

Practical Examinations.

B.A. Physics Pass	Prof. Lehfeldt & Mr. R.N. Sutton
Honours	Profs. Lehfeldt & Rudge
Chemistry Pass & Hons.	Mr. J.T. Martin & Prof. Rudge
Geology Pass & Hons.	Mr. A.L. du Toit & Prof. R.B. Young
Botany (& Biology) Pass & Honours	Mr. Pole Evans & Prof. Schönland
Zoology (& Biology) Pass & Honours	Dr. T.F. Dreyer & Prof. Gilchrist
App. Mathematics Pass	Prof. Beattie & Prof. Lehfeldt
II Mining Physics	Prof. W.E. Malherbe & Mr. R.N. Sutton
I Mining Physics	Prof. Lehfeldt & Mr. R.N. Sutton
App. Mathematics	Prof. Beattie & Prof. Lehfeldt
I Survey Optics & Heat	Prof. Lehfeldt & Mr. R.N. Sutton
B.A. App. Mathematics (Hons.)	Mr. Biggs, Profs. Morrison & Ogg.
M.A. Classics	Profs. Edgar, Paterson & Ritchie
Modern Languages	Profs. Johnson, Notcutt, du Toit & Francken
Mental & Moral Science	Profs. Hoernlé, Lord & Forsyth.
History	Profs. Blommaert, Fouché & F.A. Walker
Physics	Profs. Beattie, Lehfeldt & Ogg.
Chemistry	Profs. Hahn, du T. Malherbe & van der Riet.
Geology	Profs. Schwarz, Shand & A. Young.

Paragraph 3 was adopted.

4. With reference to the LL.D. Examination the Committee recommends that it be empowered to appoint the necessary examiners at a later date.

Paragraph 4 was adopted.

5. With reference to the Third and Final Examinations for the Degree of B.Sc. in Mining Engineering the Committee recommends that these examinations be held in conjunction with the Third and Fourth Mining Examinations of the S.A. School of Mines and Technology at

Johannesburg as in 1910 and 1911 and that the following be the ^{external} examiners:

Geology	Dr. E.T. Hellow
Surveying	Mr. W.C. van der Sterr
Engineering	Messrs E. Farrar and R. Goffe
Electrotechnics	Mr. J.H. Dobson
Mining	Messrs R.N. Kotze and J.G. Lawn
Metallurgy and Assaying	Messrs A.McA. Johnston and H.A. White

Paragraph 5 was adopted.

- 6. The Committee ~~resolved to communicate~~ to the examiners concerned the report of the Literature Committee as to the scope of the examinations in Section A of the First B.A. Pass Papers in Dutch, French and German (see Report of Literature Committee Par. II (E)).

Paragraph 6 was noted

- 7. With reference to the inclusion of Hebrew as a subject at the Matriculation Examination the Committee with the concurrence of the Divinity Committee recommends that in and after 1912 subject (f) (see Calendar p. 77) read "History or Greek or Hebrew" (see also Report of Divinity Committee Paragraph 3).

Paragraph 7 was adopted.

- 8. The Committee has considered the following matters which were referred to it for report by the Council and submits the following recommendations:

A. Regulations for Degree of D.Sc.

- (i) That it should not be required that the thesis submitted by a candidate for the degree must relate to the same Department of Science as that in which he took his B.A. with Honours.
- (ii) That the work submitted as a thesis must not have been previously submitted as a Thesis for a Degree in another University. A Thesis approved by the University for this Degree and subsequently published must bear the following inscription on the title-page:-

Thesis approved for the Degree of Doctor of Science in the University of the Cape of Good Hope.

B. B.A. Department III: Conditions for proceeding to Honours.

That clause (b) of Paragraph V of the Committee's report to the last meeting of the Council (see Minutes June meeting p. 13) be verbally amended to read as follows:

"Candidates who have passed the B.A. (Pass) Examination in Department III in those subjects which are required to be taken in order to qualify for admission as a candidate in one of the Honours Groups in Department I or II shall be allowed to enter for Honours in such Group in the following year by taking the ordinary Pass and Honours papers in the subject in question. Such candidates shall be eligible for Scholarships".

(N.B. The wording of resolutions (c) and (d) brought up for confirmation under item No. 4 of the Agenda Paper is not affected by this recommendation.)

Paragraph 8 was adopted, Professor Schönland giving notice to move at the next meeting that the following words be added after 'another University' in clause A (ii) viz. 'nor have been previously published'

9. A supplementary report (Annexure A) will be submitted embodying recommendations as to (A) the redrafting of the Matriculation Latin and Greek syllabuses in view of the excision of set books after 1912, (B) the revision of the First Survey Examination syllabus for 1912 so as to include "Elements of Geology" in view of the decision to transfer this subject to the First Examination from the Practical Examination.

ANNEXURE A.

- I. Proposed revised Syllabuses for Latin and Greek of Matriculation Examination (pp. 59 and 63 for present syllabuses).

(1) Latin.

Section A. Grammatical questions.

Section B. (a) Translation into English of some detached sentences and of two or more continuous passages from wellknown authors suitable for school reading.

(b) Translation into Latin of some detached sentences and of a simple continuous prose passage.

Section A to have 100 marks

Section B to have 250 marks and the sub-minimum in the present

Section B to be deleted.

(2) Greek.

The syllabus in Greek to be the same with the exception of Section B (b) to read as follows: "Translation into Greek of detached sentences or of a very simple continuous passage. The translation to be given of such words as the examiner thinks necessary.

Section A to have 150 marks

Section B to have 250 marks.

Clause I of the Annexure was adopted, with the substitution of 'and' for 'or' under Section (2) Greek (l.s.).

- II. Proposed syllabus in Geology for First Survey Examination (Part II
A. Written Examination (150 marks).

The following sections of the new Intermediate Geology Syllabus coming in force in 1911 (see University Calendar, pp. 99 - 101)

- (1) Mineralogy (no alteration)
- (2) Petrology (no alteration)
- (3) Physical Geology (no alteration)
- (4) Structural Geology (no alteration)
- (5) Stratigraphical Geology. The Principles of Stratigraphy:
Test of super-position and its limitations. Test of included fragments. Test of included organisms. Conditions necessary for the preservation of fossils. Uses of fossils.

Classification of Strata into Systems, series and zones.
Methods of Geological Surveying. General lithological
nature and chronological succession of the following
South African Systems:

Archaean, Witwatersrand, Ventersdorp, Transvaal, Cape, Karroo,
Cretaceous, Tertiary and Recent. Igneous intrusions.
General nature of the fossil contents of the Cape, Karroo,
and Cretaceous Systems. Comparison with the European
Classification and Succession.

B. Practical Examination (70 marks)

Recognition of handspecimens of the rocks and minerals
specified in paragraphs (1) and (2). Determination of
minerals by Blowpipe Tests. Specific Gravity etc. Inter-
pretation of Geological maps. Section Drawing from
simple geological maps.

Clause II of the Annexure was adopted.

31. The following Report of the Joint Literature and Science Committee was submitted by
Professor Hahn:

REPORT OF THE JOINT LITERATURE AND SCIENCE COMMITTEE.
(Submitted 16th September, 1911)
(Prof. Hahn)

I. The Committee has considered the following matters which were
referred to it by the Council and reports in reference thereto
as under:

(A) Admission of College Professors to a share in the examining
work in the B.A. Pass and Honours Examination.

Resolution.

"That this Committee welcomes the admission of College
Professors to a share in the examining work in the B.A.
(Literature) Examination, and hopes that the University
Council will be able to extend the application of this
principle."

Clause (A) of Paragraph I was noted.

(B) Proposed institution of a B.Sc. degree or amended B.A.
degree including Anatomy and Physiology as two of the
subjects.

Resolution.

"That this Council should take into consideration the
possibility of founding a B.Sc. Degree or an amended B.A.
Degree in which Anatomy and Physiology shall be two of
the subjects".

Clause (B) of Paragraph I was adopted in principle, and the following Special Committee was
appointed

Appointed to draft detailed recommendations after consultation with such persons as it deemed fit, such recommendations to be forwarded to the Senates of the various University Colleges for an expression of their views and thereafter submitted to the Council: ^{Hon. Prof.} Professor Beattie, Sir Harold Berry, Sir Meiring Beck, Reg. Hahn, Reg. Pearson.

- (C) Qualification for assessor membership of the Literature and Science Committees.

Resolution.

"The Committee recommends that the following be entitled to become Assessor Members of the Literature or Science Committee:

All permanent members of the teaching staffs in the Literature and Science Departments of the South African University Colleges provided they are members of Senates or Lecturers in charge of a Department for which they are responsible directly to their Senate".

It was resolved to hold over consideration of clause (c) until Item No. 29 was dealt with.

- (D) Inconsistency between (a) the Council's resolution of November 1909 and (b) the Committee's Rule of Procedure No. 8.

Resolution.

"That, considering the discrepancy between rule No. 8* of the rules of procedure of the Literature and Science Committees and the Council's resolution of November 1909*, the Council be requested to reconsider its regulations and incorporate rule No. 8."

- (N.B. The Council's resolution of November 1909 is as follows:

"That no proposal regarding the alteration of any examination regulation or syllabus shall be considered by the Literature or Science Committee unless such proposal (a) has been duly referred to the Committee for consideration by the Council; or (b) has been submitted to the Registrar, not less than two months before the date of the meeting at which such proposal is to be considered, by the Senate of a recognised College, provided that the Registrar shall, within one fortnight of receiving any such proposal, forward a copy thereof to each College Senate."

Rule of Procedure No. 8 is as follows:

"The Chairman of the Joint Committee or the Chairman of the Literature and Science Committees respectively shall be entitled to allow any matter of which due notice has not been given to be discussed, and action to be taken upon it, provided it be an unopposed motion."

Clause (D) was adopted.

- (E) Standard of H.A. Examination.

Report.

This matter was held over for consideration at next year's meeting of the Committee.

Clause (E) was noted.

- (F) Method of holding Practical Examinations.

Resolutions.

1. Applied Mathematics and Physics.

- (1) B.A., II B.Sc. in Mining and Survey Examinations.
- (a) The Examinations shall be conducted by the examiners in person, the present system of simultaneous examinations being given up.
- (b) The time spent by the examiners at any centre shall bear some relation to the number of candidates at that centre.

- (c) The examinations shall consist of two parts, (1) an oral examination on methods and instruments (2) the performance of some selected experiments.
- (d) In the case of Honours practical examinations in Physics, text books and note books shall be allowed in Part 2 of section (c).
- (ii) Intermediate, I B.Sc. in Mining, I B.Sc. in Agriculture Examinations.

The above regulations to apply except that the oral examination shall be dispensed with.

2. Chemistry.

The same scheme as above be adopted with the exception of (c) and (d) which are peculiar to Physics and Applied Mathematics. Text books and note books are not to be allowed in qualitative analysis in any University Examination.

3. Zoology and Geology.

The same scheme as above to be adopted with the exception of (c) and (d). The present method adopted by the University in regard to the choice of Internal Examiners for the practical examinations in Zoology for B.A. Pass and Honours is highly satisfactory and would answer equally well for practical examinations for Intermediate students.

4. Botany.

The practical examinations be conducted by a Committee of professors who are engaged in teaching the subject.

- (G) Scope of Practical Examination in Plant Physiology in B.A. Examination.

Report.

The syllabus printed as Annexure A was adopted.

Clauses (F) and (G) of Paragraph I were referred to the Examinations Committee for report.

II. The Committee submits the following recommendations in reference to the amendment of Examination Regulations and Syllabuses:

A. Matriculation Examination.

That the marks assigned to Greek at the Matriculation Examination be reduced from 400 to 350.

(N.B. A recommendation carried by the Literature Committee by 16 votes to 15 that the marks be not altered was rejected.)

Clause A of Paragraph II was not adopted.

B. Intermediate Examination.

That practical examinations be instituted at the Intermediate Examination in Applied Mathematics, Physics, Botany Zoology and Geology.

Clause B was referred to the Examinations Committee for report.

C. B.A. Examination.

- (1) That the marks for Applied Mathematics Honours be reduced from 1500 to 1350 viz. the total for Pure Mathematics Honours.

Clause C section (1) was adopted

- (2) That the following be substituted as the conditions to be complied with by candidates taking Course A in Department III of the B.A. Pass Examination who wish to enter for Honours in Group III (Mental and Moral Science):

The items underlined are required for the Honours Examination only. Honours students are further expected to have a more thorough command and to show a wider knowledge of the experimental methods required for the Pass Examination.

All students are expected to show proficiency in ordinary laboratory practices which are necessary for the satisfactory performance of experiments such as, e.g. bending of glass tubing, perforation of corks, germination of seeds for experimental purposes, water cultures, preparation of commonly used culture media for Fungi and Bacteria, preparation of pure Hydrogen, and Carbonic Acid Gas, etc.

Movement of protoplasm. Graphic representation of its rate per second in relation to temperature. Influence of Oxygen, Carbonic Acid Gas and anaesthetics on the streaming of protoplasm. Characteristic reactions of protoplasm.

Chemical changes in cell-walls as indicated by colour reactions. Microscopical reactions of the most important substances commonly found enclosed in the protoplasm or dissolved in the cell sap.

Absorption of light by tissues of plants. Formation and maintenance of chlorophyll. Preparation of chlorophyll solution. Properties of chlorophyll in living plants and in solution (including spectroscopical examination). Accumulated products of photosynthesis (macroscopical and microscopical tests). Effects of different intensities of light and different portions of the spectrum in photosynthesis. Formation of starch in green and etiolated leaves without light. Estimation of the increase of the amount of carbohydrates in photosynthesis. Proof that the CO₂ of the atmosphere is used in photosynthesis. Influence of the available amount of CO₂ upon the amount of photosynthesis.

Methods of showing that O is given off in photosynthesis (gas-bubble method bacterium method, bi-sulfite of soda plus indigo carmine method).

Approximate quantitative determination of the O released. Stomata in relation to photosynthesis.

Chief seat of proteid formation in higher plants. Proof that the free N of the air is not available for most plants.

Exception. Preparation, properties and action of diastase. Demonstration of the communication of the aerating system with the atmosphere through stomata and lenticels.

Qualitative demonstration of the nature of the gas-exchange in ordinary respiration. Approximate quantitative demonstration of the same. Loss of substance in respiration. Gas exchange in germinating seeds and succulents. Excretion of CO₂ in the anaerobic respiration of an aerobe. Demonstration of normal anaerobes. Conditions and products of alcoholic fermentation. Release of heat in respiration. Production of heat in fermentation. Entrance of water into seeds. Phenomena of diffusion. Energy of inhibition. Hygroscopic movements. Striking osmotic phenomena. Tensions due to turgidity. Estimation of the force of turgidity in tissues. Plasmolysis. Determination of osmotic pressure of cells. Iso tonic coefficients. Root pressure. Exudation of water by decapitated plants. Determination of its quantity and pressure under varying conditions.

Approximate rate and path of ascent of water in stems.

Lifting power of transpiring shoots. Motility of water in wood. Continuity of vessels. Negative pressure in vessels. Proof that water ascends in the lumen of waterconducting elements.

Total amount of water transpired by cut shoots and by potted plants. Amount calculated per unit of leaf area., Transpiration under varying external conditions. Relation between transpiration and the presence, number and condition of stomata. Release by plants of water in liquid form. Excretion by roots of CO2.

Zones of growth in stems, roots and leaves. Rate of growth in shoots and roots. (Direct measurements. Use of horizontal microscopes. Auxonometers.)

Grand period of growth. Influence of light on growth. Polarity. Inhibition of growth by anaesthetics, concentrated solutions, poisons, absence of oxygen or unsuitable temperatures.

Effect of gravitation on growing organs. Determination of reaction-time and presentation-period. Use of Clinostat in eliminating effect of gravitation on free-growing seedlings and potted plants.

Is this effect eliminated because the plant does not perceive the stimulus? Effect of gravitation on main and lateral roots.

Geotropism and twining plants. Places of perception of geotropic stimulus in stems and roots. Geotropic movements are growth movements. After effects of geotropic stimulus. Replacement of gravitation by centrifugal force. Responses to light of roots, stems and leaves with or without elimination of the effects of gravitation.

Phototropic response does not always take place at the place where the stimulus is received. Intensity of light necessary to constitute a phototropic stimulus. Phototropic movements of chlorophyll grains.

Hydrotropic movements of roots. Hydrotropism and phototropism of sporangiophores of Fungi. Contact-responses of tendrils.

Determination of the character of the bodies which may act as contact-stimuli. Responses of sensitive plants to various stimuli.

Chemotropism of pollen-tubes.

- (a) Logic and Psychology or Ethics and Politics.
- (b) Greek or German
- (c) Latin
- (d) Either (i) Greek or German, if not already taken under (b); or (ii) English; or (iii) Dutch; or (iv) French; or (v) History; or (vi) Economics.
- (e) Mathematics or Physics or Botany or Zoology.

Section (2) had already been dealt with under Item No. 8.

- (3) That in the event of the Council confirming the principle of allowing a third year for Honours the following proposals be adopted in reference to the present Honours syllabuses:

- (a) Classics: the number of authors prescribed for reading to be correspondingly extended.
- (b) Mental & Moral Science: The papers to be as under
 - I Paper Theory of Knowledge, with special study of Hobhouse, Theory of Knowledge.
 - II Paper Ethics with special study of T.H.Green, Prolegomena to Ethics, and Political Philosophy, with special study of Bosanquet, Philosophical theory of the State.
 - III Paper History of Greek Ethics from Socrates to Aristotle with special study of Plato, Republic. (Translation by Davis and Vaughan or A.D. Lindsay)
 - IV Paper History of Modern Philosophy with special study of Spinoza, Ethica and Lotze, Metaphysics.
- (c) Modern Languages.
 - English: four papers to be set instead of two on the present syllabus in order to ensure more intensive study of the work prescribed.
- (d) Applied Mathematics, Physics, Chemistry, Geology, Botany, Zoology: no change to be made.

(N.B. No final decision was come to in reference to Dutch, French, German, History or Pure Mathematics.)

Section (3) was noted.

III. The Committee submits for consideration the following resolutions:

- A. That in view of the fact that on several occasions technical recommendations with regard to subjects and syllabuses, unanimously adopted by sub-committees and the Literature (Science) Committee and approved by the Joint Committee of Assessors, have been rejected by the University Council without giving those directly responsible for the teaching of the subjects concerned any (or any adequate) opportunity to consider the Council's objections or counter-proposals, this meeting respectfully urges the University Council to take no action in similar cases in future, without giving the teachers of the subject in question the fullest opportunity of discussion.

(N.B. This resolution was adopted by 32 votes to 31.)

Clause A of Paragraph III was noted. recorded.

- B. That the University Council be requested to devise a scheme by which cases of hardship in the University Examinations may be dealt with

Clause B of Paragraph III was recorded.

- (C) 1. That the attention of the Council be drawn to:

- (d) The inequalities of the average percentage of marks obtained in different subjects (more particularly Science subjects) which are offered as alternatives in the Intermediate and B.A. Examinations. (see University Gazette, March 1911 p. 14.)

- (2) The inconsistency of marking from year to year, as seen in the case of Intermediate Chemistry, where the average percentages for the last three years are as follows:

1908	31.2	per cent of maximum
1909	38	per cent of maximum
1910	60	per cent of maximum.

2. That before the marks be published, a comparison of the average marks be made; and in the event of this showing extreme inequalities, a meeting of examiners shall be held to consider and deal with the matter.

Clause C of Paragraph III was noted.

- IV. The Committee reports that it has appointed the following officers for the year 1912: Chairman, Prof. Hahn; Vice-Chairman, Prof. Schönland; Secretary, Prof. Woolston.

Paragraph IV was noted.

- V. The Committee unanimously resolved to send the following message to Sir Charles Abercrombie Smith M.A., on his laying down the office of Vice-Chancellor:

The Joint Committee of Literature and Science meeting at Pretoria desires to assure the retiring Vice-Chancellor, Sir Abercrombie Smith, that it highly appreciates his able and devoted service during many years in the Council and its related committees. The Joint Committee hopes that the University may long continue to profit by Sir Abercrombie's presence in its deliberations.

Paragraph V was noted. Sir Abercrombie Smith expressed his thanks to the Chairman for the message.

32. At this stage the Council adjourned until the following day.

33. The Council resumed on the 19th September at 10 A.M.

34. The following Report of the Literature Committee was submitted by Professor Notcutt for the Chairman:

REPORT OF THE LITERATURE COMMITTEE.

(Submitted 18th September, 1911)

(The Vice-Chancellor)

- I. The Committee recommends that the works printed in Annexure A be adopted as the special subjects for the B.A. Examination in 1913.

Paragraph I was adopted.

- II. With reference to the undermentioned matters which were referred to it by the Council the Committee reports as follows:
- (A) New History Syllabus adopted for the M.A. Examination (Calendar page 187) and awaiting confirmation by the Council.



The following were adopted as the special subjects for 1913 for the B.A. Examination.

LATIN :

Pass Examination.

First Paper :

- Cicero.—*De Finibus I.*
- Horace.—*Odes I.-II.*
- Terence.—*Phormio.*

Second Paper :

- Livy I.
- Vergil.—*Aeneid IV.-VI.*

Honours Examination.

First Paper :

- Section A.—Tacitus.—*Annals XIV.*
- Lucan.—*Pharsalia I.*
- Section B.—Catullus and Tibullus.

Third Paper.

- Section A.—Period of History.—Death of Augustus to Accession of Vespasian.

GREEK :

Pass Examination.

First Paper :

- Sophocles.—*Antigone.*
- Plato.—*Protagoras.*
- Herodotus.—*VI.*

Second Paper :

- Homer.—*Odyssey I.-III.*
- Demosthenes.—*De Corona.*

Honours Examination.

First Paper :

- Section A.—Thucydides I.
- Aristophanes.—*Knights.*
- Section B.—Plutarch.—*Pericles, Demosthenes.*

Third Paper :

- Section A.—Period of History, 478—431 B.C.

ENGLISH :

Pass Examination.

First Paper :

- Section A.—Period of Literature : 1830-1900.
- Section B.—Shakespeare.—*Two Gentlemen of Verona, King John, As You Like It, Julius Caesar, Macbeth, Tempest.*

Second Paper :

- Milton.—*Samson Agonistes.*
- Keats.—*Odes (To a Nightingale, On a Grecian Urn, To Melancholy, To Autumn) : Hyperion.*
- Gray.—*Elegy written in a Country Churchyard.*
- Milton.—*Lycidas.*
- Shelley.—*Adonais.*
- Arnold.—*Scholar Gypsy, Thyrsis.*
- Lamb.—*Essays of Elia (first series).*
- Thackeray.—*Lectures on the English Humourists.*
- Jane Austen.—*Pride and Prejudice.*

Honours Examination.

First Paper :

- Section B.—*Either* : The Historical Novel, with special reference to Scott.—*Quentin Durward.*
- George Eliot.—*Romola.*
- Dickens.—*Tale of Two Cities.*

Or :

- History of Literature from 1579-1674, with special reference to the following works :—
- Marlowe.—*Dr. Faustus.*
- Spenser.—*Four Hymns.*
- Walton.—*Lives.*
- Bacon.—*Essays, 1-20.*

Second Paper :

- Section A.—Poetical works of Milton, with special reference to *Paradise Lost, Books I.-IV.*
- Section B.—Cook.—*First Book in Anglo-Saxon (Ginn).*
- Chaucer.—*Prologue and Clerkes Tale.*
- Wyld.—*Historical Study of the Mother Tongue (Murray).*

Third Paper :

(To be taken only by candidates who offer English as their third language in the Honours Examination.)

- Section B.—Marlowe.—*Dr. Faustus.*
- Spenser.—*Four Hymns.*
- Walton.—*Lives.*
- Bacon.—*Essays, 1-20.*

DUTCH.

Pass Examination.

First Paper :

- Section A.—Verdam : *Uit de Geschiedenis der Nederlandsche Taal*, will indicate the range of the examination.
- Section B.—Period of Literature : The Seventeenth Century.

Second Paper :

- Section A.—Vondel : *Maria Stuart, De Leeuwendalers, Palamedes.*
- Section B.—Langendijk ; with special reference to *Het Wederzijds Huwelijks Bedrog, De Wis kunstenaars, Spiegel der Vaderlandsche Koopheden.*
- Frederik van Eeden : *De kleine Johannes*, Part I., and a general acquaintance with Parts II. and III.

Honours Examination.

First Paper :

Section A.—Dutch and Flemish Literature after 1880, mainly with a view to: Perk, Kloos, Van Deysel, Van Eeden, Gezelle en Stijva Streuvels.

Section B.—Da Costa : *De Slag bij Nieuwpoort, Hagar.*

Second Paper :

Section A.—Selections from "*Van Alle Tijden*," No. 4, edited by Dr. D. C. Tinbergen, (published by J. B. Wolters, Groningen) viz., *Middel nederlandse Lyriese Gedichten : Van den Lande van Ooversee ; Liederen van Hudewijnch (No. XXXVII) ; Egidius, waer bestu bleven ; Alocette, voghel clein ; Kerelslied ; Lied van Halewijn ; Het Daghet in den Oosten ; Het waren twee conincskinderen ; Ic stont op hoghe berghen ; Geestelike Liederen : pages 71-74 with Des Soudaens Dochterkijn, and Die Werelt hielt mi in haer ghewout.*

Third Paper :

(To be taken only by candidates who offer Dutch as their third language in the Honours Examination.)

Section B.—Van Effen, *De Hollandsche Spectator : 81 Vertogen*, (edited by Stellwagen, published by Wolters, Groningen) ;

Klikspaan, *Studententypen.*

Van Eeden, *De kleine Johannes*, Part I.

FRENCH :

Pass Examination.

Second Paper :

Section A.—Racine—*Andromaque.*

Corneille—*Polyeucte.*

Molière—*Les Précieuses ridicules.*

(These three plays are in the series, French Classics, Hachette.)

Section B.—René Bazin.—*La terre qui meurt.*

Honours Examination.

First Paper :

Section A.—Department of Literature : The modern novel.

A. Daudet.—*Le Petit Chose.*

Pierre Loti.—*Mon frère Yves.*

Section B.—Lamartine.—*Méditations, Harmonie.*

Second Paper :

Section A.—Clédat.—*Chrestomatie du Moyen Age* : (pp. 165-189 *Roman du Renart* ; pp. 256-302, *Villehardouin, Joinville, Froissart*).

Third Paper :

(To be taken only by candidates who offer French as their third language in the Honours Examination.)

Section B.—Pierre Loti.—*Les Désenchantées.*

Prosper Mérimée.—*Colomba.*

Theophile Gautier.—*Voyage en Espagne.*

GERMAN :

Pass Examination.

First Paper :

Section A.—Behaghel.—*Die Deutsche Sprache*, pp. 1-195.

Section B.—Obermüller.—*Leitfaden beim Unterricht der deutschen Litteratur.*

Second Paper :

Section A.—Goethe.—*Götz von Berlichingen, Tasso.*

Grillparzer.—*König Ottokars Glück und Ende ; Des Meeres und der Liebe Wellen.*

Honours Examination.

First Paper :

Section A.—Department of Literature ; The modern Drama, with special reference to Sudermann.

Section B.—Heine.—*Buch der Lieder.*

Second Paper :

Section A.—Bartsch-Golther.—*Deutsche Liederdichter des 12ten bis 14ten Jahrhunderts*, pp. 60-135 (with special reference to the Minnesänger.)

Third Paper :

(To be taken only by candidates who offer German as their third language in the Honours Examination.)

Section B.—Heine.—*Buch der Lieder.*

Grillparzer.—*König Ottokars Glück und Ende.*

Sudermann.—*Heimath.*

MENTAL AND MORAL SCIENCE :

Honours Examination.

Third and Fourth Papers : as in 1912. (See Calendar, p. 179.)

ETHICS AND POLITICS :

Pass Examination.

Second Paper : as in 1912. (See Calendar, p. 179.)

HISTORY :

Honours Examination.

Third Paper :

Special period of European History : 1713-1789 A.D.

Recommendation.

That the above syllabus be confirmed for 1912 and 1913 only and that the following be the H.A. History Syllabus in and after 1914:

- I & II Papers Either (a) Ancient History or (b) Modern History.
- III & IV Papers English Political and Constitutional History.
- V Paper A special period of European History. (The period selected to be submitted for the approval of the Council by the candidate not less than 6 months before the date of Examination. No candidate will be allowed to take the same period as was taken by him at the B.A. Examination.)
- VI Paper The principles of Historical Method.
- (A) Evolution of the Science of History. Historiography in the nineteenth century.
- (B) Method. (i) Various kinds of Sources and their relative value.
- (ii) Historical Criticism, external and internal; application of auxiliary Sciences; Critical co-ordination of matter. Interpretation of Sources.
- (iii) Organisation of Modern Historical Studies; Bibliographies and reviews; Archives; Libraries; Printed Collections of Sources.
- VII Paper South African History A.D. 1815-1872 (to be studied from original documents as far as possible).
- VIII Paper Either (a) A special subject of Political Science or Economic History (to be submitted for the approval of the Council not less than 6 months before the date of examination)
- Or (b) The comparative study of the Federations and Unions within the British Empire.
- IX Paper An essay on some historical subject approved of by the Council not less than 6 months before the date of examination. (The essay to be handed in at the examination and to be certified to be the candidate's own work).

Clause (A) of Paragraph II was adopted.

- (B) New History Syllabuses adopted for the B.A. Examination (Calendar p. 163) and awaiting confirmation by the Council.

Recommendation.

That the above syllabuses be confirmed for 1912 only and that the following changes be introduced to take effect in 1913:

Pass Examination. The words "with special reference to the chief constitutional documents of the period" to be added to the Second Paper.

Honours Examination. The syllabus to be

- I Paper Constitutional History of England from A.D. 1707.
- II Paper Comparative study of the existing constitutions of any two of the following:
United States of America, Canada,
Australia, South Africa.
- III Paper A Period of European History.
For 1913, The Eighteenth Century (1713-1789).

IV Paper A special Period of South African History: (For 1913, Period of the van der Stels.)

V Paper History of Colonization. Motives and aims. Policy and Institutions in Colonies. Causes of loss or disposal of colonies. Relations subsisting between colonies and the mother country. The influence of the discovery of America and of the sea route to the East. The colonial systems of Portugal, Spain, England, the Netherlands, France, Russia and the United States.

N.B. A further recommendation has been laid before the B.A. Honours Special Committee that in and after 1913 the First Paper should cover the period 1517-1713 A.D. instead of 1250-1517 A.D. so as to be supplementary to, in place of being included within the period in the Intermediate Syllabus, viz. 800-1517 A.D.

Clause (B) of Paragraph II was adopted: the allocation of marks between the Honours Papers as agreed to for 1913 being referred to the Examinations Committee for disposal after consultation with the teachers of History at the different Colleges.

It was further decided to deal in the same way with the recommendation in the Note.

(C) Allocation of marks for 1912 B.A. History Syllabuses (Calendar p. 163).

Recommendation.

That the marks be as follows:

Pass Examination. I Paper 190, II Paper 190,
III Paper 120.

Honours Examination. Papers I - V 220 each,
VI Paper 100.

(D) Proposed additions to Intermediate History Syllabus (Calendar p. 85):

Recommendation.

That the proposed additions (viz. in Section B. "Norman and Angevin Kings with special reference to William I and Henry II": in Section D. "The Hundred Years' War: Edward III: The Black Prince: Henry V: Joan of Arc:" "Wyclif". "The Wars of the Roses": Henry VII".) be approved subject to the further addition of the words "and the beginnings of the parliamentary constitution" after "Henry II" in Section B and to the deletion from Section D of "France under later Capets and early Valois".

Clauses (C) and (D) of Paragraph II were adopted.

(E) Scope of the examination in Section A in First B.A. Pass Paper in French, German and Dutch respectively.

Report.

That, while the Examiners should carefully consider that the works prescribed in Section A, First Paper, Dutch, French and German, B.A. Pass Examination, indicate the range of the examination in the respective subjects, he is not absolutely limited by the contents of these works.

Clause (E) had already been dealt with under Item No. 30.

- (F) Steps to be taken in reference to complaints that two of the set works in Dutch for the Junior Certificate Examination in 1911 are out of print.

Report. (submitted to the Examinations Committee for disposal as directed by the Council at its last meeting. That an annotated edition of Tollens' Nova Zembla is definitely promised for the middle of September and that they have no doubt that the Camera Obscura, in which the other work referred to (De Familie Stastok) is contained, could have been obtained without any difficulty if the book had been ordered without delay, and can even yet be got in time for the study for this year's examination. They are of opinion that the selection of an alternative work would not remove any difficulty since they cannot think it would be possible to find any work of which a sufficient supply is already in stock in South Africa.

Clause (F) of Paragraph II was noted.

III. The Committee submits the following recommendations in reference to the amendment of Examination Regulations and Syllabuses:

(A) B.A. Examination.

Logic & Psychology.

1. That in and after 1913 Welton "Logical Bases of Education" be added to the list of books indicating the range of examination for Logic in the Pass B.A., and that Lotze, Logic, Ek. iii, Ch. ii (the World of Ideas) be omitted.
2. That in and after 1913 First Book in Psychology: H.W. Calkins (Macmillan) be added to the list of books indicating the range of examination for Psychology in the Pass B.A.

Ethics and Politics.

3. That in and after 1913 Mackenzie, Manual of Ethics, be substituted for Muirhead, Elements of Ethics, as a text-book for the First Paper in Ethics and Politics in the Pass B.A.

Mental and Moral Science.

4. That in and after 1913 the syllabus for the Second Honours Paper be as follows:
"Ethics & Politics: the subjects of the Pass Examination treated more fully".
5. That in and after 1912 candidates be required to answer five questions instead of four in each Honours paper.

Modern Languages.

6. That in the II Pass Paper in English, Dutch, French and German, books be prescribed either illustrating one genre of literature in different periods or different genres of literature in one period.
7. That in the II English Honours Paper (Calendar p.116 Section A read "The works or a considerable portion of the works of some one author etc".
8. That in the III English Honours Paper (Calendar p. 116) Section A Five essay subjects be set.
9. That in French and German a certain period of literature be prescribed instead of the outlines of the whole literature.

Paragraph III was adopted, the question of the desirability of continuing to name particular Text Books in connection with the subjects of examinations ^{in Logic, Psychology & Ethics & Politics} to be referred to the Literature Committee for report.

IV. The Committee submits for consideration the following resolution:

(Dutch, French & German)

That the Council be requested to prescribe the books to be studied for the Junior Certificate, Senior Certificate, Matriculation and Intermediate Examinations, respectively, at the same time as prescribing works for the B.A. Pass and Honours Examinations.

(N.B. This proposal if adopted should be applied to English also).

Paragraph IV was adopted with the omission of the words '(Dutch, French & German)'; and the selection of the prescribed works in the examinations named was referred to the Examinations Committee with power to act after consulting with the school teachers who were assessor members of the Literature Committee in June 1911.

V. The Committee reports that it has re-appointed the following officers for the year 1912: Chairman, Prof. Walker; Vice-Chairman, Prof. Ritchie; Secretary, Prof. Notcutt.

Paragraph V was noted.

35. In connection with the foregoing report of the Literature Committee Dr. Jenkins gave notice to move at the next meeting that prescribed works be set for the Matriculation & Senior Certificate Examinations in French & German.

36. The following Report of the Science Committee was submitted by Professor Mackenzie in the absence of the Chairman:

REPORT OF THE SCIENCE COMMITTEE.

(Submitted 18th September, 1911)

(Prof. Hahn)

1. The Committee has considered the following matters which were referred to it by the Council and reports as follows in reference thereto:

(A) Letter from Victoria College Senate on the subject of the unsatisfactory nature of the Practical Examinations in Physics and Applied Mathematics.

The Committee resolved to submit its report on this question through the Joint Literature and Science Committee (see item I (F) of that report).

(B) Regulations for the Cornwall and York Prize.

The Committee recommends that the following alterations be made in the regulations (Calendar p. 344):

(i) Regulation 1, line 2 after "Dissertation" insert "not already published".

(ii) Regulation 2, line 2, after "University" insert "or the qualifying examination for professional courses of the University within ten years previously".

(C) Prescribed Papers for Section (C) of III B.A. Honours
Geology Paper for 1912.

The Committee recommends that the papers prescribed be the same as for 1911 (Calendar p. 160) except that Davis

Observations in South Africa be deleted and the following added
 Mellor Waterberg Memoir Transvaal Geol. Survey
 Mitchin Fauna of Uitenhage Beds Annals S.A. Museum.

Paragraph 1 was adopted.

2. The Committee submits the following recommendations in reference to the amendment of examination regulations and syllabuses :

(A) Matriculation Examination.

Note (B) to Regulation 3 on p. 77 of the Calendar to read as follows:

In each Science subject under (e) the paper will be divided into two parts of equal length. Part I will consist of questions set with a view of testing the candidate's experimental and observational knowledge of the subject. Every candidate must satisfy the examiners in Part I as well as in the paper as a whole.

Clause (A) of Paragraph 2 was adopted, to take effect in 1912.

(B) B.A. Examination.

- (i) Mathematics. The minimum required in the Pass Examination for candidates for Honours to be reduced from 410 to 350 (i.e. as in other subjects). (Calendar p. 159).
 (ii) Applied Mathematics. Three papers to be set instead of two (Calendar p. 127).

Section (i) of Clause (B) was adopted for Mathematics and Applied Mathematics, to take effect in 1912. Section (ii) was adopted, to take effect in 1912. It was further resolved by 3 votes to 2 that the change be applied in the case of Physics also in 1912.

(C) II B.Sc. Examination in Mining Engineering.

- (i) Engineering Design and Drawing (Calendar p. 215) the words "and actual machine parts" to be added after "from sketches" in line 2 of the syllabus.
 (ii) A paper to be set on the principles underlying engineering design.

Clause (c) was adopted, to take effect in 1913.

3. The Committee reports that it has re-appointed the following officers for the next annual meeting: Chairman, Prof. Hahn
 Vice-Chairman, Prof. Mackenzie, Secretary, Prof. Crawford.

Paragraph 3 was noted.

37. The following Report of the Special Committee on the Examinations System was submitted by Professor Baillie by request of the Vice-Chancellor:

REPORT OF THE SPECIAL COMMITTEE ON THE EXAMINATIONS
 SYSTEM APPOINTED IN TERMS OF THE FOLLOWING
 RESOLUTION:

"What changes (if any) are necessary in the regulations or the law to check any abnormal variations in the percentages of passed candidates".

(Submitted 18th September, 1911)

(The Vice-Chancellor)

Committee.

The Vice-Chancellor (Chairman)

Prof. Beattie	Mr. Martin
Mr. Bender	Prof. Morrison
Dr. Flint	Prof. Hotcutt
Prof. Hahn	Mr. Justice Searle
Dr. Jenkins	Mr. Whitton
Dr. Juritz	The Registrar

Assessors

Mr. P.J. du P. le Roux
Mr. E.T. Littlewood
Mr. W.A. Russell

The Committee submits the following report:

- I. The Committee recommends that the minima (i) for a pass in any examination of the University and (ii) for a pass in any particular subject (or part of a subject) be in future treated as approximate standards only and be so described in the published regulations.
- II. The Committee recommends that the Council adopt the principle of appointing "Revising Examiners" whose reports shall be submitted to the Council and shall be deemed to be the final "reports of the examiners" in terms of Section 11 of the University Incorporation Act.
- III. The Committee recommends that in the case of every examination above the standard of the Matriculation Examination the papers set by the examiners should in future be referred for criticism, immediately after the completion of such examination, to the Senates of the various University Colleges.

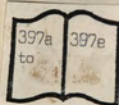
Paragraphs I, II, and III were adopted.

- IV. The Committee recommends, with a view to facilitating the issue of the final lists of successful candidates in the Junior and Senior Certificate, Matriculation and Music Examinations, that in future the names in each class (or division) in which the order of merit does not apply be printed in alphabetical order under each examination centre, the names of the centres being arranged alphabetically also.
- (At present the class lists are printed alphabetically according to the candidates' surnames and not according to centres.)

Paragraph IV was not adopted.

- V. The Committee is of opinion that in the Junior and Senior Certificate and Matriculation Examinations the number of answer books at present assigned to each examiner to mark is, almost without exception, too large for him to get through within the available time without overworking; and it recommends that the attached rules adopted by the Council in November, 1908 (see Annexure B), with regard to the appointment and payment of examiners be put in force in connection with the above examinations after 1911.

Paragraph V was adopted.



I. REVISING EXAMINERS.

1. (a) (i) For each examination the Council shall appoint a committee (described hereafter as the Revising Committee) consisting of revising examiners in particular subjects or groups of subjects. As far as practicable, these revising examiners shall be appointed to act also as the moderators in their respective subjects or groups of subjects, and in exceptional cases the Council may, if it sees fit, appoint the same person to act both as Chief Examiner and Revising Examiner.

Section (i) of Clause (a) was adopted with the insertion of the word "save" before "in exceptional cases" and the substitution of "shall not" for "may if it sees fit".

(ii) Every appointment as a revising examiner shall be conditional upon the person appointed giving a guarantee to attend at the University Office as required between the date of the examination and the completion of the results thereof.

Section (ii) was held over for further consideration, the principle being approved.

(b) For the Matriculation and Senior and Junior Certificate Examinations there shall be one such Revising Committee, and the subjects for which revising examiners are appointed shall be fixed from year to year. As far as practicable the moderators and revising examiners appointed for these examinations shall be persons with considerable personal experience of school work.

(N.B. The following schedule is suggested for 1912:

Classics (1), English (1), Dutch (1), History (1), French and German (1), Mathematics (1), Physics and Chemistry (1), Botany, Zoology, Agricultural Science (1), Bookkeeping (1), Drawing (1), Domestic Economy (1).

Clause 1 (b) was adopted, Hebrew to be added to the Schedule if necessary.

2. Each revising examiner shall be supplied with information as to the percentage of passes in the three previous years in each of the subjects (for which he is responsible) together with such remarks thereon, if any, as the Council may see fit to make.

Clause 2 was adopted with the substitution of the words "within the sphere of the Committee to which he belongs" for the words placed in brackets.

- 3. Within three days after the receipt of his first batch of answer books each Chief examiner shall, after consultation with his assistant examiners (if any), send to the Registrar for transmission to the revising examiner concerned, a set of 20 answer books of various types, with the marks assigned by him inserted against each question or part of a question, together with a statement describing the scheme of marking adopted by him.

Clause 3 was not adopted.

- 4. The revising examiner concerned shall examine and re-mark the answer books so submitted and shall return them to the chief examiner with a report on the original marking. The chief examiner shall, after receiving the revising examiner's report, cause all his answers to be re-marked, if necessary, in accordance therewith. In case of any difference of opinion, the decision of the revising examiner shall be final.

Clause 4 was not adopted.

- 5. Each chief examiner shall be required to return to the University Office along with each mark sheet sent in by him the answer books of the candidates concerned; and the Registrar shall make all necessary arrangements for having the answer books compared with the mark sheets in order to ascertain that

- (i) every question has been marked
- (ii) the marks have been correctly transferred to the mark sheets
- (iii) the totals given on the mark sheets are correct.

Clause 5 was adopted with the insertion of the word "marked" before "answer books" in line 2.

The following new clause was inserted after the foregoing:

During the course of the examinations the Registrar shall submit to each revising examiner a set of 20 marked answer books of various types for each paper in the subject or subjects for which such revising examiner is responsible.

- 6. After the results of any examination have been tabulated in the Office the Revising Committee for such examination shall draw up and present to the Council a report upon the results, including, inter alia, (a) the Revising Committee's recommendations as to the standards to be adopted, and (b) a table showing the number of First Classes, Second Classes, Total Passes and Failures on the basis of the standards recommended.

Clause 6 was adopted with the insertion of the following words after "Council" viz "or to the Committee appointed to act in the Council's behalf".

- 7. On receiving the above Report the Council shall finally decide upon the standards for the examinations concerned, and the Revising Committee shall then proceed to deal with "border line" failures in accordance with the following rules:

- 3320
- (a) The following shall be regarded as "Border Line failures":
- (i) Candidates who have obtained the required minimum aggregate for a pass in the examination as a whole but have failed in a single subject.
 - (ii) Candidates who have obtained the aforesaid minimum aggregate but have failed in two subjects provided the number of marks by which they are short in the two subjects combined does not exceed one tenth of the combined minimum in the two subjects.
- (b) Border line failures under (a,i) shall in the first place be dealt with in accordance with the present rules governing condonation of failure by not more than one fifth of the minimum in a single subject.
- (c) If any case brought up under (b) be not entitled under the rules to obtain sufficient additional marks to pass, the answer book in the subject in which the candidate in question fails shall be re-marked by the revising Examiner, with a view to confirming his failure or otherwise.
- (d) In the case of border line failures under (a,ii) the candidate's answer books in both subjects shall be re-marked by the revising examiners concerned with a view to confirming his failure or otherwise. If the candidate is found, after such re-marking, to fail in both subjects his failure shall be final. If otherwise, then his case shall be dealt with under the ordinary rules.
- (c) The recommendations of the Revising Committee as to border line failures shall be final, subject to confirmation by the Vice-Chancellor.

Clause 7 was adopted.

II. INSTRUCTIONS TO EXAMINERS.

- A. The following instructions shall be issued to examiners in reference to the preparation of papers:
- i. Examiners are directed to bear in mind the great influence which the style of examination paper set by them must have upon the method and range of instruction given in schools.
 - ii. The papers set should be carefully adapted to the stage of mental development and experience which may reasonably be expected in candidates taking the examination. (H.B. In order to be eligible for University Bursaries or Exhibitions candidates for the Junior Certificate and Matriculation Examinations must be, on the 1st July preceding the examination, under the age of 17 and 18 years respectively).
 - iii. A good paper should test whether candidates have successfully gone through a well planned course of study in the subject, within the limits of the syllabus; and, with this end in view, examiners are instructed to see that their questions are well distributed over the syllabus and that

proper weight

proper weight is given to the more important parts of the syllabus (e.g. that questions are not set on out-of-the-way points merely to avoid repeating questions on fundamental points which have been set in a previous year).

- iv. A paper should be of such length as to be within the capacity of a well prepared candidate to answer in the time allowed; and, with this and other ends in view, examiners are requested to test the requisite amount of time.

(Examiners must be prepared to inform the Council of the means they have taken to test this point.)

- v. When alternative questions are required by the regulations or are thought desirable, the option should be put as simply and as intelligibly as possible.

- vi. Compulsory parts of the paper should be printed first.

3. The following rules shall be observed by examiners in reference to the marking of answers:

- (vii) The marks attached to the questions on the draft paper at the time of its being set are to be regarded as provisional.
- (viii) In marking answers the general principle to be followed shall be to mark positively and not negatively, i.e. to give value for what is correct.
- (ix) Each examiner shall draw up a scheme of marking and shall, in framing this scheme, observe the following directions:

Literature Subjects.

- (a) The various questions should in general be subdivided into "points" to which a definite value is given, i.e. questions are not to be estimated as a whole merely.
- (b) In the case however of essays or general questions where manner and style and excellence of matter are of importance as well as correctness in points the answer should be estimated as a whole. (N.B. It is suggested that this can be done most practically by grouping the answers into 4 or 5 classes in the first instance and assigning to each class a certain numerical standard of marks).

Mathematics and Science Subjects.

- (c) A précis of a satisfactory answer to each question should be made, and marks should be assigned to the various parts of the answer.
- (d) An adequate proportion of the marks should be assigned to those parts which involve a conception of the fundamental ideas of the subject.
- (e) Logical arrangement, and quality and sufficiency of diagrams should be taken into account in assigning the marks.
- (f) In Arithmetic and Algebra due allowance should in all cases be made for method.

- (x) Marks lost by an error in one part of an answer shall not be greater than the number of marks assigned to that part, except in those cases where the error invalidates the other parts of the answer. (N.B. In Mathematics a scheme of prevalent errors should be drawn up showing the number of marks to be deducted for each.)
- (xi) Within three days after the receipt of his first batch of answer books each chief examiner shall, after consultation with his assistant examiners (if any), send to the Registrar for transmission to the revising examiner concerned, a set of 20 answer books of various types, with the marks assigned by him inserted against each question or part of a question, together with a statement describing the scheme of marking adopted by him.
- (xii) The revising examiner concerned shall examine and re-mark the answer books so submitted and shall return them to the chief examiner with a report on the original marking. The chief examiner shall, after receiving the revising examiner's report, cause all his answers to be re-marked, if necessary, in accordance therewith. In case of any difference of opinion, the decision of the revising examiner shall be final.

Each chief examiner shall be required to return to the University Office, along with each mark sheet sent in by him, the answer books of the candidates concerned, and the Registrar shall make all necessary arrangements for having the answer books compared with the mark sheets in order to ascertain that

- (i) every question has been marked
- (ii) the marks have been correctly transferred to the mark sheets
- (iii) the totals given on the mark sheets are correct.

Section II Instructions to Examiners was adopted with the deletion of Clauses B (xi) and B (xii), and the insertion of the word "marked" before "answer books" in line 2 of clause C.

ANNEXURE B.

RULES IN REGARD TO THE APPOINTMENT AND PAYMENT OF EXAMINERS.

(Approved November, 1908.)

If the number of candidates taking any subject at any examination exceeds 600*, the Examinations Committee shall, in considering the appointment of examiners in the following year, provide for the paper such subject to be dealt with in one of the following ways:

It shall be divided into two Parts with two (chief) Examiners, who shall be jointly responsible for setting the whole paper;

It shall be assigned to a Chief Examiner with the assistance of an Assistant Examiner;

It shall be assigned to one Chief Examiner with the assistance of two Assistant Examiners;

It shall be divided into two Parts with two Chief Examiners, who shall be jointly responsible for setting the whole paper, and each of whom shall have the assistance of an Assistant Examiner.

(* Or such other number, not being less than 500 or more than 700, as the Committee may from time to time decide.)

The appointment and employment of Assistant Examiners shall be subject to the following conditions:

The Chief Examiner shall submit for the approval of the Examiners Selection Committee not later than 30th June the name and qualifications of the proposed Assistant Examiner in his paper.

The full list of Assistant Examiners, as approved by the Committee, shall be submitted to the Council for confirmation at its August meeting.

The Assistant Examiner shall examine the answers of all the candidates to the questions assigned to him, acting under the direction of the Chief Examiner, whose decision in doubtful cases shall be final.

The Mark Sheets shall be signed and returned to the University by the Chief Examiner.

When the work has been completed the Chief Examiner shall forward to the Registrar a statement certifying that he has examined the answers of all candidates to questions (A,B,C, etc.) and that the Assistant Examiner has examined the answers of all candidates

to questions (D,E,F, etc.), provided that the actual work of examining the papers shall, as far as possible, be divided equally between the Chief Examiner and each of the Assistant Examiners.

The fee for examining the paper shall be divided between the Chief Examiner and the Assistant Examiner in the following proportions:

	<u>Chief Examiner</u>	<u>Assistant</u>
(a) Where one Assistant is employed	three fifths	two fifths
(b) Where two Assistants are employed	four tenths	three tenths each.

VI. The Committee has drafted the detailed proposals printed in Annexure A, and recommends that for the present these be adopted only in so far as concerns the Junior and Senior Certificate and Matriculation Examinations.

Paragraph VI was noted; the decisions in reference to Annexure A will be found recorded on the Inset.

VII. With reference to the following proposal which was referred to the Committee by the Council

That in future the appointment of examiners be not made at the February meeting of the Council but at a meeting to be held subsequently thereto

the Committee recommends

- (1) that a special meeting of the Council be held annually about the end of March for the express purpose of appointing the examiners for the year, usually appointed at the February meeting, and
- (2) that in 1912 such meeting be held on Saturday, 13th April and that the Examinations Committee meet for the purpose of preparing nominations on Saturday, 16th March.

Paragraph VII was adopted.

N.B. At the request of Mr. W.A. Russell, a member of the Committee, the Committee resolved that he should be permitted to prepare a memorandum, in his capacity as Inspector of High Schools, to be appended to the final Report of the Committee. This memorandum will be found attached*.

It was resolved that the memorandum referred to be recorded.

The Report (and Annexure A as amended) was referred back to the Committee for final consideration & for report as to (1) which of the recommendations should be put into force for the examinations of 1911. (2) the names of the revising examiners, if any, recommended for 1911. (3) what proposals of a similar nature should be adopted in reference to the Intermediate Examination & other examinations of the same relative status as the Intermediate.

38. The following Report of the Library Committee submitted by Miss Beattie was adopted (see Interleaf).
39. With reference to the appointment of Assessor Members of the Literature & Science Committee for the period 1911-1913, it was resolved to refer clause (c) of Paragraph I of the Report of the Joint Literature & Science Committee (see Mem No. 31) to the following Special Committee for report to the next meeting, the appointments to be held over in the meantime: The Vice-Chancellor, the Pro-Vice-Chancellor, Miss Beattie, Brier, Hazen, Kintore, Masfadyen, Mookanji, Morrison & Schönland.
40. The following motion moved by Prof. Ritchie on behalf of Dr. Viljoen was adopted, with the omission of all words after 'Free State Provinces':
- "That to the list of assessor members of the Music Committee there be added one representative each from the Transvaal, Natal & O. Free State Provinces, to be nominated by the Directors of Education of the respective Provinces."
- It was further decided to invite the Education Departments concerned to submit lists of suitable persons for appointment.
41. The following letter from the Natal University College Senate was recorded:

I am instructed by the Senate of this College to bring to the notice of the University Council the following statement of facts concerning the recent alterations in the Law Certificate Examinations and to point out the unfairness of the procedure adopted:-

When the new rules were adopted it was stated in the University Calendar and in the University Gazette that candidates would be entitled in 1910 and 1911 to take the examination under

either the old or new regulations. There was no limitation put upon this general statement and the not unreasonable inference was that a candidate who had failed, say, in Part I under the new regulations would be entitled to take the whole examination under the old regulations if he wished to revert. Several students of this College had decided to adopt this procedure when, in March 1911, there appeared a new rule to the effect that no candidate could revert to the old regulations after having taken an examination under the new regulations. This rule appeared in the University Gazette and so obtained some degree of publicity.

It appears to the Senate to be grossly unfair to those students who had mapped out a course of procedure to be told, in the middle of the year, that a new regulation had been made which upset their whole course of study.

The circumstances of this rule are certainly exceptional and the evil resulting from it cannot now be remedied; but the Senate wished to express the hope that in future in Law Examinations, as in the Arts Course, the University Council will adopt the rule that alterations of this description shall not come into operation without two years' notice of them having been given.

42. The following letter from the Institute of Land Surveyors of the Transvaal was recorded:

I am directed to acknowledge the receipt of your letter of the 7th inst. enclosing the report of the Survey Committee, and to thank you for the information contained therein.

My Council trusts that the lower minimum and aggregate marks now required to be obtained to secure a pass do not indicate any lowering of the standard of the examination. It is, of course, common knowledge that there has been much dissatisfaction regarding the very small number of passes in this examination during the last few years, but my Council, and probably all who have the interests of the profession at heart, are of the opinion that this is better remedied by improved training than by a lower standard.

My Council has frequently urged the establishment of a chair of surveying at some college or colleges where a good practical training may be obtained, and trusts that the Committee's recommendation will be given effect to at an early date.

43. Letters from the S.A. Teachers' Association forwarding the subjoined resolutions adopted at the Teachers' Conference at Port Elizabeth were recorded:

- (a) That with reference to the recent Matriculation scandal this Association desires to place upon record its great surprise and resentment at the failure of the University to remedy an injustice which it has itself acknowledged and wishes to express its deep regret at the loss of confidence which it has suffered thereby.
- (b) That the Cape University be strongly urged to send detailed lists of the marks obtained in the School Junior and Senior Certificate and Matriculation Examinations to the schools concerned, as they have done in the past.

44. A letter from the Werda Komitee of the Studentetaal Konferensie submitting the subjoined resolutions was recorded:

1. This Conference is of opinion that the time has come for provision to be made for students if they so choose to be able to take the higher University Examinations also in Dutch.
2. (a) That we as students bind ourselves to do our utmost to get Dingaan's Day suitably observed throughout the length and breadth of our land as a holy and national festival.
- (b) That we urge the University Council to so arrange that all examinations shall be concluded before 16th December.

N.B. This is urged because (1) it will be seen that a great annual national festival will develop of which Dingaan's Day will be the centre, (2) it is desirable that students should be at home at this festival or if that is impracticable should in any case be free to take part in this national event. It is felt this can hardly be the case if students must brace themselves again for examination on the 17th December.

ANNEXURE C.

MEMORANDUM BY MR. W.A. RUSSELL, M.A., INSPECTOR OF
SCHOOLS, ON THE INFLUENCE WHICH THE STYLE OF THE MATRI-
CULATION PAPERS SET AT PRESENT HAS ON THE METHOD AND
RANGE OF INSTRUCTION GIVEN IN SCHOOLS.

Eliah. The present style of examining on prescribed literature makes the teacher give far too large a proportion of his time to philological and antiquarian notes. The reading of the text is often neglected, and the human interest of the work is to a large extent lost sight of.

Doh. Too much attention is given to learning by heart so-called equivalent idiomatic and proverbial expressions in Doh and English.

Lin. The resolution of the Council to prescribe no set work will indirectly have an injurious influence on the teaching in schools. It means that instead of reading a continuous work, the class will be exercised on books of extracts selected as suitable passages for translation at sight.

It would be better also if, instead of continuous passages for translation into Latin, sentences were set to illustrate Latin sentences structure and the various types of case.

Htory. At present half hour essay questions are set. To expect judicious and accurate answers of an essay type from school boys and girls of 17 is to expect a higher level of thought and expression than their minds are capable of. Accordingly the instruction in schools often takes the form of dated notes, with the result that answers are of the "barrot" type.

A combined History and Geography paper of a more concrete character would be more suitable at this stage.

Mathematics. Our mathematical work is at once too difficult and too narrow. The amount of time given to Mathematics at present would suffice to take classes through a more extensive course, including Logarithms and Trigonometry, if only the examiners would consent to set easy straightforward examples and riders.

Science. The present provision of the University that the second half of the Science paper shall be set to test laboratory practice does not achieve its purpose. In my opinion the only method to accomplish this end effectively is to make provision for rapid examination of the candidates' laboratory note-books - with a view to marking them but simple of ascertaining that they have gone through a practical course.

45. It was resolved not to accede to an application from a candidate for B.A. Honours in Geology in 1912 to be allowed to sit for his preliminary (i.e. intermediate) examination in Zoology in 1911 at East London.
46. A letter from a candidate for B.A. Honours in Geology in 1912 asking whether the new rule requiring such candidates to pass in the Intermediate Zoology paper debar them from taking Biology as a B.A. Pass subject was referred to the Examinations Committee with power to act.
47. A letter from a candidate applying for exemption from the Preliminary L.B. Examinations was referred to the Law Committee with power to report.
48. It was resolved to accede to an application from a Civil Service candidate for the Preliminary L.B. Examinations in 1912 to be exempted, if successful, from Part I of the Civil Service Higher Law Examination.
49. The following Memorandum by the Registrar was considered :

REGISTRAR'S MEMORANDUM.

(Submitted 18th September, 1911)

1. The following statistics in reference to the results of the Music Practical Examinations of 1911 are submitted for the Council's information.

	Honours	Pass	Failed	Percentage of Failures
Licentiate Examinations	-	19	37	66.1
Teachers' Diploma Examination	-	2	0	100
Music Certificate Examinations (Practical Subjects)	73	1485	533	20.7
(Theoretical Subjects)	110	623	277	27.4
(Preliminary)		1321	96	6.8

Paragraph 1 was noted.

2. A number of candidates have elected to take History at the Junior Certificate Examination through the medium of Dutch. It will therefore be necessary to appoint a third examiner (i.e. in addition to Dr. Flint and Mr. Cousins) to translate the questions into Dutch and to mark the answers written in that language.

Paragraph 2 was referred to the Examinations Committee with power to act.

3. In view of the decision to introduce Hebrew as a subject for Matriculation the point should be considered what place, if any, it is to take in the Senior Certificate Examination, in which History is a compulsory subject and Greek cannot be taken at all.

In reference to Paragraph 3 it was decided to take no action for the present.

4. The question has been raised whether candidates who have entered for music as one of their subjects for the Senior Certificate Examination may, on learning that they have failed to pass the

music examination, substitute another subject on their entry form for the Senior Certificate.

(N.B. Candidates are at liberty to withdraw altogether up to 30th September and under ordinary circumstances are allowed to change their choice of subjects up to a reasonable period before the examinations.)

In reference to Paragraph 4 it was decided to allow another subject to be substituted for Music.

5. Applications are frequently received for a certificate that a candidate has passed in a particular subject at one of the University examinations. In many of such cases a fee of 1/- is tendered and accepted, but there is no rule on the subject and as applications of the kind have been growing more numerous lately, (especially from candidates for the Transvaal teachers' examinations) it seems desirable to decide definitely whether a nominal fee is to be charged or not.

It was decided to charge a fee of 2/6^d for all certificates of the kind referred to in Paragraph 5.

6. An enquiry has been received from the holder of the Oxford University Honours Certificate in the School of Modern Languages granted in lieu of the B.A. Degree to women students as to whether the Council would be prepared to take steps to enable holders of such certificates to proceed to the M.A. Examination.

Paragraph 6 was referred to the Admissions Committee for report.

7. Congress of the Universities of the Empire (June 1912).
A. Appointment of delegates.

The following letter has been received as to the number of delegates to be appointed. The Council deferred making nominations until this question had been settled.

7th July, 1911.

Dear Sir,

I note that the University of the Cape of Good Hope would like to defer nominating its representatives to the Congress till September next.

I am extremely sorry that by some inadvertence your letter of September 20th respecting the number of delegates was not answered.

It was the wish of the Committee that the University of the Cape of Good Hope should send as many representatives as it considered necessary to give adequate representation to the different institutions associated in the University, so that if the University desires to nominate seven representatives that number will be welcomed.

(Sgd.) R.D. Roberts.

- B. Letter requesting the Council to furnish brief memoranda setting out the views of the University on certain topics.

(See Annexure A.)

Paragraph 7 was referred to the Vice Chancellor's Committee with power to act.

8. B.A. Examination Regulations.

The attached memorandum (See Annexure B) has been drawn up with a view to defining the actual position created by recent changes in the scheme of the B.A. Examinations, it having been found that these changes render the rules as to Pass and Honours

Courses difficult to set out clearly on paper and complicated to follow on the basis of the existing division into Departments. The memorandum suggests a complete re-arrangement of the B.A. Regulations with a view to giving complete information to students as to the requirements of each separate Honours Course open to them under its proper head.

Paragraph 8 was referred to the Examinations Committee for report.

50. The following letter from the Rhodes University College was recorded, the matter having been disposed of under Han No. 9.

The Senate of the Rhodes University College, Grahamstown, would urge upon the Council of the University of the Cape of Good Hope the following reasons why the proposed Third Year for Honours B.A. should not be adopted.

1. While it is desirable that the standard for Honours should be raised from time to time, as has been done in the past, the educational value of such an advancing standard is determined also by the number of students taking the Honours Courses. At present it is a very considerable proportion of the total entry for B.A. Degree. And so long as the Standard is raised gradually we may expect that a large percentage of students will continue to attempt Honours. If however the standard is raised suddenly, and especially if the conditions are so altered that an additional year's study is necessary, the number of those attempting Honours will be considerably reduced; and as it will be some time before the Pass Degrees could be made equal to the present Honours standard, the result would be to decrease the total educational value of the University Courses at least temporarily.

2. As against this loss the proposed scheme could only achieve the training of a few students to a higher standard which however can now be done if students will avail themselves of the opportunities offered by M.A. Part II.

As a matter of fact however it appears that most of those students who could profitably attempt M.A. Part II find means of going to Europe and studying there. It is in the highest degree unadvisable to offer any obstacle to students going to Europe; even if we can provide identically the same teaching and facilities in South Africa as the greater Universities of Europe, it still remains educationally an advantage that students (and those the most capable of profiting by it) should visit Europe at that stage of their career.

3. It is also to be observed that the proposed scheme would put Honours and therefore Scholarships, for the most part, out of the reach of all students save those who could afford an additional year at the Colleges. It would penalise the poorer classes of the community from which some of the best students have been drawn in the past.

4. Moreover the proposed scheme would increase the work of the staffs of the Colleges by one third as much as it is at present. This would make unduly large staffs necessary or else diminish the efficiency of the instruction given during the first three years: for most professors and lecturers in South Africa are already teaching as many hours as they can with efficiency.

51. With reference to the following letter from the Hon. Secretary of the Royal Society of South Africa, it was resolved to appoint Professor Morrison to represent the University Council.

I have the honour to inform you that the Council of the Royal Society of South Africa have decided to establish a fund for making grants in aid of the furtherance of scientific investigation in South Africa, and I am instructed to invite you to appoint or nominate a representative to the general committee, in terms of the resolution of the circular which I am sending herewith.

(Sgd.) L. Peringuey,
Hon. Sec.

His work has already been recognised by His Majesty the King who conferred on him the companionship of the Order of St. Michael and St. George. Another form of recognition which must be peculiarly pleasing to him lies in the fact that his laboratory in Pretoria is visited by students from all the South African Governments including the German and the Portuguese, and from this centre is sent out a band of trained workers who are already showing how stock diseases can be successfully combated.

Dr. Theiler was the first recipient of the South African medal founded by the British Association for the Advancement of Science and awarded by the South African Association. He is president of the latter Association for 1912.

Dr. Robert Broom, M.D., D.Sc., Ex Professor
of Zoology and Geology, Victoria College, Stellenbosch.

Dr. Robert Broom was educated at the University of Glasgow, and is a Doctor of Medicine and Doctor of Science of that University.

During his University career he held various posts as Demonstrator in connection with the medical and scientific classes in the University, and was already a contributor to the proceedings of scientific societies.

Dr. Broom, during all the years in which he has practised his profession in Australia and in South Africa, has ardently pursued zoological investigations, especially in the field of palaeontology.

Dr. Broom has contributed over a hundred and forty papers and communications to the proceedings of Zoological Societies, and of these a very large number are to be found in the annals and proceedings of the South African Museum, the Albany Museum and the South African Philosophical Society. South African men of science have generously testified to the abundance and the originality of Dr. Broom's scientific work.

His contributions to the solution of obscure problems regarding the relations of species previously not recognised as related and regarding the zoological relations of various parts of the world have been recognised by his Alma Mater which conferred upon him the degree of D.Sc. in respect of his South African work, and by the Geological Society of London which awarded to him the Lyell Gift in 1909.

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As a brilliant lecturer, an original investigator and a devoted upholder of the best ideals of science Dr. Broom deserves honour from all who are able to appreciate the value of his example.

T.W.

- 03
52. With reference to a letter from the Principal of the Readingbury Public School requesting permission for the 'General' examinee section of a Blind Candidate for the Junior Certificate Examination to do type written in ordinary script at the School for the Blind, Worcester, at the candidate's own expense, for ^{marking} consideration by the examiners; it was resolved to accede to the request, subject to such safeguards being enforced as the Registrar deems sufficient.

53. It was resolved to accede to the request in the following letter from the Transvaal Education Department:

I am directed to enquire whether it will be possible for you to supply this Department with a number of the Matriculation Dutch papers for the use of candidates for the Teachers' Third Class Certificate Examination where it is desired to examine on the Matriculation Dutch syllabus. The worked papers will be revised by the examiner of this Department.

It is not estimated that the number of such candidates will exceed fifty and they would take this examination at the same time as the Matriculation candidates.

54. It was resolved to refer to the Examinations Committee, with power to act, a letter from Prof. Schabas (Rhodes Univ. College) asking that two candidates for B.A. Honours Geology in 1912 who are taking Biology as a subject in their First Examination may be exempted, under the circumstances from the rule requiring them to take the Intermediate Zoology.

55. The following Report of the Honorary Degrees Committee was laid on the table:

REPORT OF THE HONORARY DEGREES COMMITTEE.

(Laid on table 19th September, 1911)

The Committee recommends that the following Honorary Degrees be conferred on Degree Day 1912 and submit the accompanying provisional minutes (see Annexure)* setting forth the grounds on which the respective recommendations are based:

1. Honorary Degree of Doctor of Laws

The Honourable John Gilbert Ketse K.C., LL.B., Judge President of the Eastern Districts Court.

2. Honorary Degree of Doctor of Science.

Arnold Theiler C.M.S., Dr. Med. Vet., Government

Veterinary Bacteriologist.

3. Honorary Degree of Doctor of Science.

Robert Broom M.D., D.Sc.

Thomas Walker
Nov. 6, 1911.

The Hon. Justice John Gilbert Kotzé,
Judge President of the Eastern Districts Court.

John Gilbert Kotzé was born in Cape Town, and was educated in the School Tot Nut van 't Algemeen and in the South African College.

His legal education was pursued in England, in the University of London and in the Inns of Court, where he joined the Society of the Inner Temple. Mr. Kotzé was Senior Exhibitioner in Common Law under the Council of Legal Education, and is a Bachelor of Laws of the University of London.

After a brief period of practice at the bars of the Supreme Court and of the Eastern Districts Court, Mr. Kotzé was in 1877 appointed a Judge of the High Court of the Transvaal, becoming in 1881 Chief Justice of the South African Republic, which position he continued to hold till 1898. During this period he was invited to accept several important judicial offices in South Africa.

In 1900

his official work has called him Justice Kotzé has shown himself a wise and enlightened promoter of the best interests of the community, educational, artistic and literary.

Arnold Theiler, C.M.G., Schweiz. Tierarz. Staatsdiploma; Dr. Med. Vet. University, Berne; Hon. Associate R.C.V.S., London; Associé étranger de la Société de Pathologie Exotique, Paris; Membre Corresp. de la Société Centrale de Med. Vet., Paris; F.R.S., South Africa; Government Veterinary Bacteriologist.

Dr. Theiler has been engaged for many years in the study of stock diseases in South Africa. In this connection he has carried on and has brought to a successful issue a number of most valuable researches in pure science and has further made practical application of the results of these investigations in a manner which is of immense economic value not only to South Africa but to stock raising countries throughout the world.

Some of the more important of his investigations are those which resulted in the serum treatment for rinderpest; the immunity which South Africa enjoys from this disease is due to the efficacy of the treatment worked out and perfected by him and his co-workers.

Dr. Theiler has further discovered a practical method of immunising mules against horse sickness, and against bilial fever. He has discovered and introduced a simple method of preventing blue tongue in sheep.

His work

T.W.

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Judge Kotzé's long and varied and arduous professional career has been distinguished by its constructive influence upon law in South Africa. His judgments in many important cases are recognised as sound and scholarly and illuminating. He has contributed numerous articles on law and reviews of legal works to the S.A. Law Journal.

He has translated into English and annotated the important treatise of Simon van Leeuwen on Roman-Dutch Law. He edited a long series of Reports of the High Court of the Transvaal. And with infinite research and patience he collected, collated and codified the resolutions, ordinances and acts, which had been promulgated in the Transvaal from the time of the Emigrant Boers to the end of his own period of office as Chief Justice of the Transvaal. The accomplishment of an undertaking of such high practical value testifies to the ability and endurance of the jurist by whom it was planned and executed.

Justice Kotzé's energies have not been limited to the work of his official position or to the literature of law. On many occasions he has acted for the University in its legal examinations.

Since the establishment of the Rhodes University College he has served continuously as Chairman of the College Council. Wherever his official work has called him Justice Kotzé has shown himself a wise and enlightened promoter of the best interests of the community, educational, artistic and literary.

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