

17 Feb. 05

University of the Cape of Good Hope, that his own University had conferred upon him this special recognition of his services <sup>in the cause of</sup> education. As Vice-Chancellor he would move that the Council's congratulations to Dr. Thomson be recorded in the minutes.

The motion was unanimously agreed to.

On the motion of Dr. Walker it was agreed to record the Council's sense of the ability with which the duties of the Registrar had been performed by the Assistant Registrar, Mr. A. A. Elliott, during the absence of Dr. Thomson.

was submitted

a

Letter from the Secretary of Convocation reporting the election by convocation of the Rev. A. Moorrees as a Member of Council in place of the Rev. J. H. Hofmeyr, resigned.

was submitted.

a

Letter from the Under Colonial Secretary reporting the appointment by the Governor of Mr. C. J. Mudie, Superintendent of Education, as a Member of the University Council for Natal in place of Mr. P. A. Barnett, resigned.

A letter was also submitted from the Rev. Canon Ispin intimating that owing to advancing years he regretted that he felt compelled to resign his position as a member of Council.

It was resolved that Registrar be directed to convey to Canon Ispin the regret which Council felt in accepting his resignation <sup>and</sup> to express to him the Council's appreciation of ~~the~~ services he had rendered to Education.

It was further resolved that the respectful sympathy of Council be conveyed to him in his recent bereavement.

The following

Report of the Vice-Chancellor's Committee was submitted:

The Committee reports that it has admitted the following persons to the examinations specified:—

- (a) To the Intermediate Examination:  
Lionel Braund Kent.
- (b) To the B.A. Examination:  
William Archibald Moore.
- (c) To the Final (Partial) LL.B. Examination:  
Carl Johannes Stegmann, B.A., LL.D.

New Members of Council

(1) Rev. A. Moorrees

(2) Mr. C. J. Mudie

Resignation of  
Canon Ispin

Report of Vice-  
Chancellor's Com<sup>tee</sup>

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Results of Examinations

Memorandum re Matric. Arithmetic, &

Intermed. Algebra

The Results of the School Examinations held in November, with the lists of *Boursaries* awarded, and the results of the University Examinations held in December with the lists of exhibitions awarded were submitted and confirmed.

In connection with these results the following memorandum was submitted by the Registrar:-

MEMORANDUM.

A. Matriculation Arithmetic Paper, 1904.

The attention of the Council is directed to the fact that owing to the low marking in Arithmetic at the Matriculation examination, due no doubt to the difficult character of the paper, the Committee of Examiners found it necessary to condone failure in Arithmetic in the case of a considerable number of candidates who had passed in all other respects.

B. Intermediate Algebra Paper, 1904.

The attention of the Council is also directed to the fact that owing to the extremely low marking in Algebra at the Intermediate examination, due to the difficult character of the paper, the Committee of Examiners found it necessary to increase the marks in that subject by 50 per cent, in order to place the examination as nearly as possible on the same basis as that of the two previous years.

It is suggested that the examiners in the above subjects for 1905 be instructed to adhere more closely to the standard of previous years in the preparation of their papers.

It was resolved that the suggestion contained in the memorandum be adopted with addition of the words "moderators and Chairman" after the word "examiners".

Award of Prizes

The Vice-Chancellor reported that the Prizes in connection with the examinations of the year had been awarded as follows:-

I. Chancellor's Prize.

Smith, Johannes Jacobus, Victoria College, Stellenbosch.

II. Chalmers Memorial Prize.

Davis, Reginald Percy Basil, *St. Ignace College, Dordrecht*

III. Queen Victoria Memorial Prize.

Hunter, William John Russell, Boys' High School, Sea Point.  
Mann, <sup>IV.</sup> Norman Fleetwood, High School, Durban.

IV. Hampden Willis Civil Service Prize.

Maddox, Montague, St. Aidan's College, Grahamstown.

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The following Report of the Scholarship Committee was submitted

Report of  
Scholarships Com<sup>tee</sup>

Report of the Scholarship Committee.

(Submitted 17th. February, 1905.)

The Committee recommends that the Scholarships available be awarded as follows:-

- |  |     |
|--|-----|
| Hiddingh Scholarship to No 1. in Modern Languages. | I   |
| Porter Scholarship to No 1. in Philosophy.         | II  |
| Queen Victoria I. to No 1. in Chemistry.           | III |
| Queen Victoria II. to No 2 in Mathematics.         | IV. |
| Jamison (additional) to No 1. in Physics.          | V   |

The Committee further recommends that a University Scholarship equal in value to the Jamison (additional) be awarded in terms of the last paragraph of section 5 of the Regulations for Scholarships to No 1. in Classics. VI.

The Committee reports that after having had two years' experience of the present system of the Regulations for the award of scholarships, it is of opinion that the whole question should be reconsidered with a view to securing a more equitable method of awarding scholarships and of securing a higher standard for eligibility for scholarships.

It was resolved that the Scholarships be awarded as recommended except in the case of Mathematics and Physics. In the case of these subjects it was resolved that the Queen Victoria Scholarship be awarded to No 1 in Physics and the Jamison (additional) to No 2 in Mathematics.

\* Leslie Blackwell. N.B. a scholarship was awarded to No 2 in Mathematics as No 1 had declined to accept one.

In accordance with the Report of the Committee it was resolved that the Regulations for the award of Scholarships be referred to the Literature and Science Committees with a view to revision.

- N.B. The following are the names of the Scholars
- I. Johannes Jacobus Smith
  - II. Tobias Ballot Muller
  - III. Frederick Litta Horne
  - IV. William Humming Stuart
  - V. George Wilson H. Fincham
  - VI. Louis Wilhelm le Roux.

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In the case of Nos. I, II, III, and V statements\* were submitted specifying the course of study proposed to be pursued during the tenure of the scholarships.

\* See Sch. Sch. for details.

In the case of I, II and V the courses were approved of; in the case of III it was decided that the Scholar would not be entitled to enter upon the tenure of his scholarship till he commences his proposed course in Mining Engineering or Medicine as the case may be.

Application for Fellowship.

An application was submitted from Mr. Daniel Lategan, M.A., for a fellowship. The matter was submitted to the Scholarship Committee for consideration and report.

Queen Victoria Scholarship: award.

The Registrar reported that in accordance with the Regulations the Queen Victoria Scholarship for girls would fall to Miss Isabella Sutherland, Huguenot College, Wellington, and that she proposed to continue her studies for the degree of M.A. at the University of Glasgow.

It was resolved that the course of study be approved of and that the Scholarship be awarded to Miss Sutherland.

Queen Victoria Exhibition: award.

The Registrar further reported that the Queen Victoria Exhibition for girls would fall to Miss Sarah Libson, Kimberley High School for girls, and that she proposed to pursue a course of study in Music at Kimberley.

It was resolved that the course of study be approved of and that the Exhibition be awarded to Miss Libson.

Subject for J. B. Ebdon Prize

The question of the subject for the J. B. Ebdon Prize in 1906 was discussed and the following selected as the subject for the Essay:-

"The probable influence of preferential tariffs within the British Empire upon the development of the Commercial and agricultural resources of the different Colonies of South Africa.

Extension of Music Exhibition

A renewed application was submitted from Mr. E. Marsh, supported by a report from the President of the Royal College of Music, for the extension of the Music Exhibition held by his daughter. It was decided to accede to the request.

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Extension of  
Scholarships refused.

Applications were submitted from Miss Marie Williams and Mr. L. de B. Hugo requesting that the period of tenure of their Scholarships be extended. It was decided to refuse the applications in accordance with the resolution of Council in February 1896 to the effect that no scholarship be extended beyond the time specified in the Regulations.

Reports of  
Examiners 1904.

The Reports of Examiners of 1904 were laid upon the table. The Registrar reported that Parts II would be edited by the Committee as decided upon by Council; the Committee to be composed as follows  
Rev. Dr. Flint, Prof. Logeman and Prof. Mackenzie  
It was resolved that Parts I should be referred to the various standing Committees.

Amendment of  
Resolution re  
Sch. Elementary Ex.

Attention was drawn to the resolution dealing with the conditions of admission of candidates from Government Schools in Cape Colony to the School Elementary Examination. After discussion it was decided to confirm the resolution in the following amended form:

"That in and after 1905 it shall be required of all candidates from Government Schools in Cape Colony who enter for the School Elementary Examination that they have been studying in Standard VII or in Standard B or a before the 1st of May of the year in which the examination is held."

Registrar's Memo.

The following Memorandum was submitted by the Registrar:

(Memorandum attached hereto.)

The following were the decisions of Council with reference to the various points raised: -

A. Chancellor's  
Medal

A. (1) That the thanks of the Council be conveyed to His Royal Highness for the gift of the Medal.

(2) That the conditions of the award of the Medal be as suggested with the addition of the words "passes in Honours and" after the word "who"

MARLBOROUGH HOUSE  
PALL MALL

5th July, 1904.

Dear Professor Thomson,

I have laid before His Royal Highness the Chancellor of the University of the Cape of Good Hope *your* suggestion that he should present annually a Medal, as a prize to the most distinguished candidate in some particular branch of study. His Royal Highness has much pleasure in acceding to this proposal, and I shall be obliged if you will take steps to obtain a suitable design for the Medal, which can then be submitted for His Royal Highness' approval.

As I anticipated, His Royal Highness would like the prize to be given for modern Languages.

I would suggest that you should apply to Mr Wyon for the design.

Yours very faithfully,

*Arthur Bije*

Professor Thomson.

Registrar of the University of the Cape of Good Hope,  
Ladies Empire Club, 69 Grosvenor Street, W.

MARLBOROUGH HOUSE  
PALL MALL

22nd July, 1904.

Dear Professor Thomson,

Although the Prince of Wales had decided yesterday, after hearing of your views as to the proposal to grant the Medal for a prize for English Essay writing, His Royal Highness, on seeing your letter of yesterday, and taking into consideration that you speak as the representative of the University, decided that the Medal should be given according to his first intention, viz: for Modern Languages.

I should be glad if you could tell me whether in your opinion the University Authorities are likely to be satisfied with this decision, and that the Prize will as long as His Royal Highness remains Chancellor, be given for Modern Languages, otherwise it might be advisable in casting the die not to have the words "For Modern Languages" introduced. Mr Wyon has suggested as an





Wishes to reproduce  
a suitable  
picture and  
ask him to  
send me the  
account.

Yours sincerely  
Arthur Biffé

Marlborough House,  
Pall Mall. S.W.

July 26<sup>th</sup> 1904

Dear Professor Thomson

In reply to  
your request  
that the  
price of Wales  
might be  
pleased to

## REGISTRAR'S MEMORANDUM.

A. Chancellor's Gold Medal

As will be seen from the following letter H.R.H. The Chancellor has been graciously pleased to present annually a Gold Medal for proficiency in Modern Languages :-

Marlborough House,  
 Pall Mall,  
 8th. July, 1904.

Dear Professor Thomson,

I have laid before His Royal Highness the Chancellor of the University of the Cape of Good Hope your suggestion that he should present annually a Medal as a prize at the B.A. Examination to the most distinguished candidate in some particular branch of study. His Royal Highness has much pleasure in acceding to this proposal and I shall be obliged if you will take steps to obtain a suitable design for the Medal, which can then be submitted for His Royal Highness' approval.

As I anticipated, His Royal Highness would like the prize to be given for Modern Languages.

Yours very faithfully

(Signed) Arthur Higge.

The design which was submitted in due course to H.R.H. met with His full approval and the first Medal is ready for award in connection with the examinations of 1904.

It will be necessary for the Council to prepare a Regulation for the award of the Medal, and the following is submitted for consideration:-

H.R.H. The Chancellor has been graciously pleased to intimate His intention of presenting annually during His Chancellorship a Gold Medal for proficiency in Modern Languages. The Medal will be

awarded to the candidate at the B.A. Examination who obtains the highest aggregate in Modern Languages as determined by the Pass and Honours Marks combined.

B. Chancellor's Portrait.

As will be seen from the following further letter from Sir Arthur Beggo H.R.H. has also been graciously pleased to present the University with an enlarged photograph of himself:-

Marlborough House,  
Pall Mall,  
26th. July, 1904.

Dear Professor Thomson,

In reply to your request that the Prince of Wales might be pleased to present an enlarged photograph of himself to the University of the Cape of Good Hope, I am directed to let you know that H.R.H. gladly consents to this proposal. Will you therefore arrange with the photographer in Cape Town who took a likeness of H.R.H. in his Chancellor's robes to reproduce a suitable picture and ask him to send me the account.

Yours sincerely

(Signed) Arthur Beggo.

The portrait has now been obtained and added to the collection of portraits of office-bearers of the University.

C. Exemption of Cape Graduates from the First Professional Examination at Edinburgh.

As provision has now been made for candidates taking their Arts Degree in Physics, Chemistry, Botany and Zoology, I availed myself when in Edinburgh of the opportunity of making an application to the University Court to have the Cape University placed on the list of institutions recognized under the provisions of Section XI of Ordinance 16.

the following is the reply of Professor Taylor the Secretary of the University Court :-

University of Edinburgh,

28th. November, 1904.

Dear Sir,

I am directed to inform you that the University Court, on the recommendation of the Senatus, have agreed to grant Recognition to the University of the Cape of Good Hope under Ordinance 16, Section XI., by virtue of which holders of an Arts or Science Degree of that University (granted after a course of study and an examination in Botany, Zoology, Physics and Chemistry) shall be exempted from examination in these subjects in the First Medical Professional Examination.

D. Cape First Professional Medical Examination.

As the provisions of the section of the Ordinance referred to above are applicable to a very small proportion of the Cape Students who intend to pursue a medical career, I approached the University Court with a suggestion that provision should also be made for exemption in the case of candidates who have not actually taken a degree in Arts or Science.

The following further extract from Professor Taylor's letter indicates the result of the application:-

I am also to state that, on the recommendation of the Senatus, the University Court have agreed that a paragraph be added to the Medical Ordinance in the following terms - the matter to be proceeded with at the same time as other proposed alterations on that Ordinance, now under consideration :-

\*If a Candidate for the Degrees of M.B., and Ch. B. have completed under a Teacher recognized by the University Court, a course of study in Botany, Zoology, Physics, or Chemistry, and have passed, in a Colonial University recognized by the University Court, an examination in Botany, Zoology, Physics, or Chemistry qualifying

for a Degree in Science or in Arts, and of a standard satisfactory in the judgment of the Senatus Academicus, he shall be held to have passed the examination in such subject or subjects."

As you are no doubt aware Draft Ordinances effecting alterations on existing Ordinances require to be submitted to the University Courts, Senatus, and General Councils of all the Scottish Universities before being finally approved - and thereafter must be submitted to the Privy Council for approval.

I am

faithfully yours

M.C.Taylor.

Secretary.

E. Oxford and Cambridge Regulations re  
Affiliated Students.

As requested by the Council I visited Oxford and Cambridge and discussed with the respective authorities the question of applying for permission for a Colonial student in the case of Oxford to consider his first term as either his second or his fifth and in the case of Cambridge to consider his first term as either his second or his fourth.

As a result of the interviews the following replies have been received :-

*Local Examination Office,  
Oxford.*

Dear Sir,

I have taken some opportunities of consulting responsible persons here with respect to the subject of our interview. As I explained to you then, it is exceedingly unlikely that the University would give favourable consideration to a request that a student from the University of the Cape of Good Hope should be allowed to reckon the term of his matriculation as either his second or his fifth; and I find that the opinion which I expressed to you pretty strongly on that occasion is shared by all whom I consulted.

The main difficulty experienced by students from the Cape is understood to be one of dates, their normal time for arriving in England being January, whereas our academical year begins in October and our Honour Examinations are held in June.

I think, however, that some, at least, of the awkwardness disappears on a closer inspection of the facts, and that a somewhat detailed investigation of a hypothetical instance will make the situation clear.

I take the case of a Cape student who arrives in England in January 1905, who is qualified for matriculation as a Senior Colonial Student and who keeps Terms here without intermission from the date of his matriculation. To such a student the following courses are open : he may

1. matriculate in January 1905, take his Honours Examination in June 1906 and his B.A. Degree in December 1906:
2. Matriculate in January 1905, take his Honours Examination in June 1907 and his B.A. Degree in June (or July) 1907.
3. matriculate in April 1905, take his Honours Examination in June 1907 and his B.A. Degree in June (or July) 1907.
4. matriculate in October 1905, take his Honours Examination in June 1907 and his B.A. Degree in June (or July) 1907.
5. matriculate in October 1905, take his Honours Examination in June 1908 and his B.A. Degree in June (or July) 1908.

A Junior Colonial Student has also to take Moderations or an equivalent. He could (so far as our University Regulations are concerned) adopt the first of the above five alternative courses, but it is to be expected that he would take one of the others.

If I can supply additional information, I shall be happy to do so.

Yours very truly,

(Signed) H. Gerrans.

1041

Syndicate Buildings,  
Cambridge.

13th. June, 1904.

Dear Sir,

I have now had the opportunity of consulting the Chairman of the Affiliation Committee of the Council with reference to the point relating to the Regulations for Affiliation which we discussed when you called upon me a short time ago.

The Chairman agrees with me in thinking that the change for which you asked could not be effected without modification of the Statutes of the University. He takes, however, a more favourable view than I was at first inclined to do in regard to the possible readiness of the Council of the Senate to move for the necessary change in the Statutes on the next occasion when any other change is in contemplation. I think I told you that a change of Statute is rather a serious matter. When, however, the University is moving for a change in one respect, other changes can at the same time be effected without any great increase of difficulty.

It may, therefore, be worth your while to make a definite application to the Council of the kind which you originally suggested.

I cannot of course say definitely whether any such application will be granted. It will be convenient that, if application is made, it should be addressed to me.

In the meantime the Chairman confirms the statement that I made to you in regard to the present position, and in particular as to the status of a student coming into residence in the Easter Term of any year. I may put my statement in definite form as follows:

An affiliated student who commences residence in the Lent Term of any year (say Lent 1905) must, if he claims the privilege of counting his first term of residence as his fourth, take a Tripos

Examination, which an ordinary student would take at the end of his third year, in the Easter Term next but one following (Easter 1906).

If he does not claim the privilege referred to, he can take a Trips Examination in the Easter Term next but two following (Easter 1907), but in this case he will have to keep the following Michaelmas Term (Michaelmas 1907) before proceeding to a Degree.

If he commences residence in the Easter Term of any year (say Easter 1906), he can, by claiming the privilege of counting his first term of residence as his fourth, take his Trips Examination in the Easter Term next but one following (Easter 1907), and he can then proceed to his degree in the same term.

If there is any point that I have not made quite clear, I shall be most happy to write further.

I am,

Yours very truly,

(Signed) J.N.Keynes.

N.B. No action has been taken with reference to the resolutions on the subject adopted at the last meeting of Council in order that Council might have another opportunity of considering the question in view of the above replies.

F. Payment of Scholarships held in Europe.

As considerable inconvenience is experienced by students holding University Scholarships by having their scholarships paid in half-yearly instalments, it is suggested that all scholarships should in future be paid in three instalments instead of in two.

N.B. This arrangement will give the University a greater hold over the scholars as certificates would have to be given for shorter periods.

It is further suggested that it be a standing Rule that the Vice-Chancellor have power to authorize the payment to any scholar of a moiety of the first instalment of his scholarship for the purpose of defraying initial expenses.



G. Rhodes Scholarships.

Under the existing regulations a Rhodes Scholar would be eligible for certain University Scholarships. It is suggested that Council should determine whether this should continue to be possible.

H. Music Examination Arrangements.

I had several opportunities of discussing matters in connection with the Music Examinations with the Associated Board, and the following arrangements were entered into:-

1. That the technical portions of the Music Regulations should in future be printed in London from the same type as used for printing the Regulations for the examinations in England, and that the Board receive for its services in editing the syllabus the sum of £5 per annum.
2. That in future three examiners be engaged with a minimum period of four weeks each.

In order to reduce travelling expenses I succeeded in arranging with the Union Castle Co. that the fares for the examiners should be on the same scale as students, thus saving 25% of the passage money.

I. New Geometry Syllabuses.

In order to give teachers an idea of the nature of the papers to be set under the new scheme and also to establish a standard for the guidance of examiners, it is suggested that the Geometry Committee be requested to prepare for publication a set of papers for the three lower examinations.

J. Arrangements for Practical Examinations.

It is necessary that the question of the method of conducting the Practical Examinations in Science be discussed at an early date.

It is suggested that a committee be appointed to discuss the whole subject and report to Council at its next meeting.

I desire to take this opportunity of thanking the Council for the generous manner in which they responded to my request for an extended leave of absence during last year.

W. Thomson.

B. Chancellor's Portrait

B. That the thanks of the Council be conveyed to His Royal Highness for the gift of the portrait.

C. &amp; D. Medical Facilities at Benlough

C. That the thanks of the Council be conveyed to the Senate for their action in the matter.

D. That the ~~next~~ Science Committee be requested to prepare a scheme of examinations adapted to conditions specified in the proposed new ordinance.

E. Facilities at Cape Town

E. That the whole matter be held over till next meeting pending reconsideration of the subject by the Senate of the S.A. College, with whom the question originated.

F. Payment of Scholarships

F. That Scholarships in future be paid in three instalments, each instalment to be paid in advance in the case of scholarships held in Europe.

G. Rhodes Scholars

G. That no Rhodes scholar be eligible for any University Scholarship and that the regulations be amended accordingly.

H. Annual Grant

H. That the proposal to pay £5 to the Associated Board be approved.

I. Sample papers

I. That the suggestion be adopted.

J. Practical Physics.

J. That the matter stand over pending a motion by Dr. Beattie on the subject to be submitted at next meeting.

Higher &amp; Technical Education.

The following

Report of the Committee on Dr. Gregory's Motion, was submitted:-

## Resolutions of the Committee:

1. That the time has arrived when the question of Higher and Technical Education must be dealt with afresh.
2. That it is desirable to refer this question to an Inter-Colonial Commission, or, failing this, to a Commission appointed by the Government of the Cape Colony.
3. That the Commission should enquire into the possibility and desirability of establishing a federal University with affiliated colleges.

[That in the opinion of this Council, the time has arrived when, in the interests of Higher and Technical Education in South Africa, an Inter-Colonial Commission should be appointed to consider this subject in all its bearings, with a view to ascertaining the best steps that can be taken for placing it on a sounder, wider, and more enduring basis.]

Further, that the Vice-Chancellor be requested to convey this resolution to the Cape Government, with an expression of the hope that it will take into consideration the best method of securing the co-operation of the Governments of the several South African Colonies in the appointment of such a Commission; and, further, that in the event of such a Commission being appointed this Council shall be adequately represented.]

prepared by Prof. W. B. Bant

after discussion the following resolution, was adopted

"That a Committee of the Council be appointed to consider and report upon (1) The best means

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of improving the present system of higher and technical education in the colony.

- (2) The possibility and desirability of establishing closer relations between the University and the Colleges carrying on University work.
- (3) That the Committee consist of the following: The Vice-Chancellor, The Pro Vice-Chancellor, Dr. Gregory, Prof. Marais, Dr. Flint, Sir Bisset Berry, Prof. Ritchie, Prof. Beattie, Prof. Morrison, Mr. Jenkins, Dr. Magowan and the mover.

The question of the

**Confirmation of Amended Regulations with reference to Geometry and Trigonometry at the Intermediate Examination was discussed in conjunction with the attached notes.**

NOTE 1.—The Senate of the Rhodes University College has submitted a letter protesting against the substitution of a compulsory paper in Geometry and Trigonometry instead of a full paper in Euclid without a full year's notice being given in the University Calendar. [The objection could be met by allowing alternative papers in 1905.]

NOTE 2.—In preparing the new syllabus in Geometry it seems to have been overlooked that the Theorems on Proportion which are included in the new Matriculation syllabus, but not in the new Intermediate syllabus, will not be studied by those who take Euclid at the Matriculation examination. As this will be the case till 1908, when the new Matriculation syllabus will be compulsory, it is suggested that these Theorems be inserted in the new Intermediate syllabus for the years 1905-1908.

The Amended Regulations were confirmed with the proviso that candidates in 1905 be allowed to take Euclid as a compulsory subject and Trigonometry as an optional subject (as in 1904) instead of Geometry and Trigonometry (A) and (B) as in the new scheme, and that the Theorems on Proportion referred to in Note 2 be added to the new syllabus for the years 1905-1908.

a \*Letter from the Principal of the High School for Girls, Bloemfontein, making certain recommendations with regard to the Botany at the School Higher Examination, and the optional subjects at the Matriculation Examination was submitted.

It was resolved that the recommendation with regard to Botany at the School Higher Examination be referred to the Science Committee, and the consideration of the recommendations with reference to optional subjects at the Matriculation stand over till the Report of the Matriculation Committee is resubmitted.

Optional Mathematics  
at the Intermediate  
Ex-

Letter re School Higher  
and Matric. Syllabus

University of Edinburgh

28<sup>th</sup> Nov., 1904.

See also letter  
of 27/11/04.

Dear Sir,

I am directed to in-  
form you that the University Court,  
in accordance with the recommendation of the Senatus,  
has agreed to grant Recognition  
to the University of the Cape of  
Good Hope under Ordinance 16,  
XI., by virtue of which holders  
of Arts or Science Degree of that  
University (granted after a course  
of study and an examination in  
Botany, Zoology, Physics, & Chemistry)  
shall be exempted from examina-

tion in these subjects in the  
Medical Professional Examination.

106a

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I am also to state that, on  
the recommendation of the Senatus,  
the University Court have agreed  
that a paragraph be added to the  
Medical Ordinance in the following  
terms - the matter to be proceeded  
with at the same time as other pro-  
posed alterations on that Ordinance,  
now under consideration: -

"If a Candidate for the Degrees of  
M.B., & Ch.B. have completed under  
a Teacher recognized by the University  
Court, a course of study in Botany,  
Zoology, Physics, or Chemistry, and

106a

and have passed, in a Colonial  
University, recognized by the Uni-  
versity Court, an examination in  
Botany, Zoology, Physics, or Chemistry  
qualifying for a Degree in Science  
or in Arts, and of a standard  
satisfactory in the judgment of the  
Senatus Academicus, he shall be  
held to have passed the examina-  
tion in such subject or subjects."

As you are no doubt aware,  
Draft Ordinances effecting altera-  
tions on existing Ordinances require  
to be submitted to the Univ. Courts,  
Senatus, and General Councils of  
all the Scottish Universities before

being finally approved - and  
thereafter must be submitted to  
the Privy Council for approval.

I am faithfully yours

W. C. Duff

Secy

Professor W. Thomson,  
Registrar of the University of the  
Cape of Good Hope,  
11 Denhamgreen Avenue,  
Edinburgh.

University of Edinburgh

25<sup>th</sup> Jan'y, 1905.

Dear Sir,

I am in receipt of yr.

letter of 29<sup>th</sup> Ultimo.

In reply to yr. query I may state  
that this University Court having  
recognised the University of the  
Cape of Good Hope under Ord. 16,  
Section X, does not require  
that the Teachers of that Univer-  
sity who have given instruction  
to the Arts & Science Graduates  
of this Section shall individually

be recognised by this University.

Believe me

faithfully yours

M. C. Taylor  
Secy.

The Registrar

University of the Cape of Good Hope

P. O. Box 304

Cape Town

South Africa.

The following Report of the Building Committee was submitted :-

The Committee reports as follows:

1. Tenders for the New Buildings were called for in London and South Africa and were opened this week in London and in Cape Town respectively.
2. Several satisfactory South African tenders were received for amounts considerably lower than the lowest London tender. Hence the London tenders need not be further considered.
3. The amounts in several of the lowest South African tenders exceeded the sum originally contemplated by Council, but the Quantity Surveyor has indicated items which may be either omitted or modified so as to reduce the cost to an amount only slightly different from that originally specified.
4. The Committee therefore recommends that it be authorized to proceed with the buildings, provided it is satisfied that it can make the necessary financial arrangements.

It was decided to adjourn the consideration of the Reports to a Special Meeting of the Council to be held on February 25<sup>th</sup>.

a Request for the substitution in the case of Transvaal candidates of Transvaal Statute Law in place of Cape Statute Law at the Final LL.B. Examination. was submitted,

and it was resolved to ascertain the opinion of the Transvaal authorities on the subject.

a Letter from the Acting Under Secretary for Agriculture asking for an expression of the views of Council on a proposal to provide for the teaching and training of forest officers, was referred to the Committee on Higher Education.

a Letter from the Principal of S. Andrew's College requesting that the honorarium paid to the local Secretary of the Grahamstown University Examination Committee be increased from £10 to £20, and a request from

the Superintendent of Education of Natal that an honorarium of £10 be paid to the Secretary of the Education Department at Maritzburg for acting as local secretary of the University Examinations in Natal, were referred to the Vice-Chancellor's Committee with power to act.

17 Feb. 1905

Report of  
Building Com<sup>tee</sup>

Decision for  
and Statute  
at Final LL.B.

request for training  
of forest officers  
of forest officers

honorarium  
local secretaries

17 Feb. 1905

History Syllabus  
at B.A. Exam<sup>n</sup>

A Report was submitted by the History Committee with reference to the History Syllabus at the B.A. Examination. It was resolved that the Report be referred back to the Committee with instructions in the case of the Paper on Political Science and Economic History to draw up a syllabus instead of a list of books. Mr. Merumian's name was added to the Committee.

Institutions

The following Institutions of which due notice had been given were submitted:-

## I. By Mr. Fremantle:

- (a) That it be an instruction to the joint Literature and Science Committees to consider and report to the Council on the advisability of laying down a regulation that after 1905 no candidate be admitted to the Matriculation examination until he has completed his sixteenth year.
- (b) That it be an instruction to the Registrar to prepare and publish forthwith statistics showing in the case of each school and Colony and for each School or University examination the number of candidates sent in, and the number of candidates who did not present themselves, who failed to pass, and who passed in the various classes.
- (c) That in future these statistics be prepared and published regularly.

## II. By Professor Notcutt:

That a Committee be appointed to consider the practicability of revising the syllabus of the various examinations in English conducted by the University, with a view to laying less stress on a knowledge of technical points of grammar, and giving greater weight to ability to use the language correctly.

That the following constitute the Committee:—Professor Clark, Professor Ritchie, Professor Walker, Mr. Whitton and the mover.

I (a) was adopted.

I (b) and (c) were ordered to stand over till next meeting the words in square brackets being omitted.

II. Was adopted.

Controversy of  
Regulations

The Registrar reported that a candidate at the School Higher Examination, No 5 of Queenstown, John Graham after investigation confessed that he had copied the answers of some of the questions from another candidate.

It was resolved that the candidate be informed that he would not be allowed to enter for the School Higher till 1906 nor for the Matriculation till 1907.



An Application from the Director of the South African Conservatorium of Music, Stellenbosch for permission for three candidates for the Music Diploma to take the Advanced Pianoforte this year at the same time as the professional part of the examination was acceded to.

The Registrar reported that Mr W.H. Logeman had sent in the completed Thesis for the Cornwall and York Prize. It was decided to refer the thesis to the examiners who had reported upon the original thesis.

The following names were added to the Literature Committee: Prof. Smijemans, Prof. Loewyex, and Miss Sargent.

The following examiners and moderators were appointed for the examinations of 1905:

#### SCHOOL ELEMENTARY EXAMINATION.

##### Literature Committee.

Subject.	Examiner.	Moderator.
English I.	Rev. O.J. Hogarth, M.A.	Prof. Walker, M.A., LL.D.
English II.	Mr. E.A. Belcher, B.A.	Prof. Walker, M.A., LL.D.
English History	Mr. C. Murray, M.A.	Mr. C.W. Cousins, B.A.
S.A. History	Rev. Dr. Flint	Mr. C.W. Cousins, B.A.
Latin	Rev. J. Macmillan, M.A.	Rev. B.H. Hampden Jones, M.A.
Dutch	Mr. M.J. Besselaar	Dr. Hoogenhout, M.A.
French	Mr. R.D. Nauta	Prof. Logeman, E.A., L.H.C.
German	Dr. Hoogenhout, M.A.	Prof. Viljoen, Ph.D.
Kafir	Mr. W.G. Bennie, E.A.	
Sesuto	Rev. Geo. Rolland	
	Chairman: Prof. Ritchie, M.A.	

##### Science Committee.

Arithmetic I. & II.	Mr. J. Barrie Low, M.A.	Prof. Kent, M.A.
Descriptive Geog.	Rev. J. Whiteside	Mr. J. Smith, M.A.
Physical Geog.	Mr. J. Smith, M.A.	Rev. J. Whiteside
Mathematics	Prof. Craib, M.A.	Prof. Mackenzie, M.A.
Science	Prof. Cory, M.A., F.C.S.	Mr. D. Williams, B.Sc.
Handwriting	Mr. R. Dale & Mr. J. Rodger, M.A.	
	Chairman: Mr. E. Noaks, M.A.	

#### SCHOOL HIGHER EXAMINATION.

##### Literature Committee.

English I.	Rev. W.E.C. Clarke, M.A.	Prof. Walker, M.A., LL.D.
English II.	Mr. H.S. Cooke, M.A.	Prof. Walker, M.A., LL.D.
Latin Part I.	Prof. Kldd, M.A.	Rev. B.H. Hampden Jones, M.A.
Latin Part II.	Prof. C.S. Edgar, M.A.	Rev. B.H. Hampden Jones, M.A.
Greek	Rev. B.H. Hampden Jones, M.A.	Prof. Ritchie, M.A.
History	Prof. Godee-Molsbergen, Lit.D.	Mr. C.W. Cousins, E.A.
Dutch	Prof. Logeman, B.A., L.H.C.	Dr. Hoogenhout, M.A.
French	Mr. R.D. Nauta	Prof. Logeman, B.A., L.H.C.
German	Dr. Hoogenhout, M.A.	Prof. Viljoen, Ph.D.
Kafir	Mr. W.G. Bennie, E.A.	
Sesuto	Rev. Geo. Rolland	
	Chairman: Mr. C. Murray, M.A.	

##### Science Committee.

Arithmetic	Mr. E. Noaks, M.A.	Prof. Kent, M.A.
Mathematics	Prof. Martin, M.A.	Prof. Crawford, M.A., D.Sc.
Part I. (Algebra)		
Mathematics	Prof. Morrison, M.A., B.Sc.	Prof. Mackenzie, M.A.
Part II. (a) Euclid		
(b) Geometry.		
Physics	Prof. Cory, M.A., F.C.S.	Mr. D. Williams, B.Sc.
Chemistry	Dr. Tietz, M.A., Ph.D.	Mr. J. Muller, E.A.
Botany	Dr. B. Stoneman	Prof. Pearson, M.A.
	Chairman: Mr. J. Barrie Low, M.A.	

17 Feb. 1905

Music Teacher  
Diploma:  
supplimentary entrance.

Completed Thesis  
for Cornwall &  
York Prize

Additions to  
Literature Com<sup>tee</sup>

Appointment of  
examiners &  
Moderators.

17 Feb 1905

## MATRICULATION EXAMINATION.

## Literature Committee.

English I.	Prof. Clark, M.A., LL.D.	Mr. H.E.S. Fremantle, M.A.
English II. Part I	Prof. Notcutt, B.A.	Mr. H.E.S. Fremantle, M.A.
(Shakespeare)		
Part II. (Macaulay)	Mr. W.G.R. Murray, M.A.	<del>Prof. Walker, M.A., LL.D.</del>
Latin Part I.	Prof. Macdonald, M.A.	Rev. B.H. Hampden Jones, M.A.
Latin Part II.	Prof. Kidd, M.A.	Rev. B.H. Hampden Jones, M.A.
Greek	Rev. B.H. Hampden Jones, M.A.	Prof. Ritchie, M.A.
History	Prof. J. Edgar, M.A.	Mr. C.W. Cousins, B.A.
Dutch	Prof. Viljoen, Ph.D.	Dr. Hoogenhout, M.A.
French	Mr. R.D. Nauta	Prof. Logeman, B.A., LL.D.
German	Dr. MacGowan, M.A.	Prof. Viljoen, Ph.D.
Kafir	Mr. W.G. Bennie, B.A.	
Sesuto	Rev. Geo. Rolland	

Chairman: Prof. Walker, M.A., LL.D.

## Science Committee.

Arithmetic	Prof. Brown, M.A., B.Sc.	Prof. Kent, M.A.
Algebra	Prof. Mackenzie, M.A.	Prof. Crawford, M.A., D.Sc.
Geometry Part I.	Prof. Crawford, M.A., D.Sc.	Prof. Morrison, M.A., B.Sc.
Geometry Part II.	Prof. Kent, M.A.	Prof. Morrison, M.A., B.Sc.
Physics	Prof. Beattie, D.Sc.	Mr. D. Williams, B.Sc.
Chemistry	Prof. van der Riet, M.A.	Mr. J. Muller, B.A.
Botany	Dr. B. Stoneman	Prof. Pearson, M.A.

Chairman: Prof. Hahn.

## INTERMEDIATE EXAMINATION.

## LITERATURE COMMITTEE.

English I.	Prof. Loveday, M.A.	Mr. H.E.S. Fremantle, M.A.
English II.	Prof. Walker, M.A., LL.D.	Mr. H.E.S. Fremantle, M.A.
Latin	Rev. H.V. Taylor, M.A.	Prof. C.S. Edgar, M.A.
Greek	Rev. B.H. Hampden Jones, M.A.	Prof. Ritchie, M.A.
History	Mr. C.D. Hope, M.A.	Mr. C.W. Cousins, B.A.
Dutch	Rev. J.P. van Heerden, B.A.	Dr. Hoogenhout, M.A.
French	Dr. Logie, B.A.	Prof. Godee-Molsbergen, Lit.D.
German	Mr. K.A.H. Houghton, B.A.	Prof. Viljoen, Ph.D.

Chairman: Mr. C. Murray, M.A.

## Science Committee.

Algebra	Mr. E.M. Binckes, B.A.	Mr. W.E. Malherbe, B.A., B.Sc.
Geometry & Plane		
Trigonometry (A) & (B)	Mr. J. Sutherland, M.A.	Prof. Morrison, M.A., B.Sc.
Dynamics	Mr. E.T. Littlewood, M.A., B.Sc.	Prof. Crawford, M.A., B.Sc.
Physics	Mr. D. Williams, B.Sc.	Mr. W.E. Malherbe, B.A., B.Sc.
Chemistry	Mr. J. Muller, B.A.	Mr. H.C.L. Bloxam
Prac. Chem.	Mr. J. Muller, B.A.	Mr. H.C.L. Bloxam
Botany	Dr. B. Stoneman	Prof. Dendy, D.Sc.
Zoology	Dr. Purcell, B.A.	Dr. Gilchrist, M.A., B.Sc.
Geology	<del>Mr. E.H.L. Schwarz</del> Mr. A.W. Rogers	Mr. E.H.L. Schwarz, A.R.C.S.

Chairman: Hon. Sir C. Abercrombie Smith, M.A.

~~Geometry~~

## B.A. PASS EXAMINATION.

## LITERATURE.

English I.	Rev. J.A. Campbell, M.A.	Mr. H.E.S. Fremantle, M.A.
English II.	Rev. H.V. Taylor, M.A.	Mr. H.E.S. Fremantle, M.A.
Latin I. & II.	Mr. A.H. Walker, M.A.	Prof. C.S. Edgar, M.A.
Latin III.	Rev. B.H. Hampden Jones, M.A.	Prof. C.S. Edgar, M.A.
Greek I. & II.	Dr. Cillie, B.A.	Prof. Ritchie, M.A.
Greek III.	Rev. B.H. Hampden Jones, M.A.	Prof. Ritchie, M.A.
Dutch I. & II.	Rev. A. Moorrees	Dr. Hoogenhout, M.A.
French I.	Mr. H.C. Girdlestone, B.A.	Prof. Godee-Molsbergen
French II.	Dr. Logie, B.A.	Prof. Godee-Molsbergen
German I.	Rev. <del>J.A. Campbell</del> <i>C.W. Wagner</i> , M.A.	Prof. Viljoen, Ph.D.
German II.	Mr. K.A.H. Houghton, B.A.	Prof. Viljoen, Ph.D.
Logic & Psychology	Rev. N.J. Brummer, M.A., B.D.	
I. & II.	Dr. Macfadyen, M.A., LL.D.	Rev. Dr. Kolbe, B.A.

## B.A. HONOURS EXAMINATION.

## Literature.

Classics I.	Dr. Cillie, B.A.	Prof. Walker, M.A., LL.D.
Classics II.	Rev. B.H. Hampden Jones, M.A.	Prof. Walker, M.A., LL.D.
Classics III.	Rev. B.H. Hampden Jones, M.A.	Prof. Loveday, M.A.
Classics IV.	Mr. A.H. Walker, M.A.	Prof. Loveday, M.A.
Mental & Moral	Mr. Fremantle, M.A.	
Science I. II. III. & IV.	Dr. Macfadyen, M.A., LL.D.	Rev. Dr. Kolbe, B.A.
	<del>Rev. N.J. Brummer, M.A., B.D.</del>	
English I.	Rev. H.V. Taylor, M.A.	Mr. H.E.S. Fremantle, M.A.
English II.	Rev. J.A. Campbell, M.A.	Mr. H.E.S. Fremantle, M.A.
Dutch I.	Rev. A. Moorrees	Dr. Hoogenhout, M.A.
Dutch II.	Rev. J.P. van Heerden, B.A.	Dr. Hoogenhout, M.A.
French I.	Dr. Logie, B.A.	Prof. Godee-Molsbergen
French II.	Mr. H.C. Girdlestone, B.A.	Prof. Godee-Molsbergen

17 Feb. 1905

B.A. HONOURS EXAMINATION.

LITERATURE. (Contd.)

German I. Mr. K.A.H. Houghton, B.A. Prof. Viljoen, Ph.D.  
 German II. Rev. G.W. Wagener Prof. Viljoen, Ph.D.  
 Chairman: Mr. C. Murray, M.A.

B.A. PASS EXAMINATION.

SCIENCE.

Mathematics A I.	Mr. E.T. Littlewood, M.A.	Prof. Brown, M.A., B.S.
Mathematics A II.	Miss Fawcett, Math. Trip.	Prof. Brown, M.A.,
Mathematics A III.	Mr. W.E. Malherbe, B.A., B.Sc.	Prof. Crawford, M.A.
Mathematics B I.	Mr. W.E. Malherbe, B.A.	Prof. Morrison, M.A.
Mathematics B II.	Mr. E.T. Littlewood, M.A.	Prof. Brown, M.A., B.S.
Mathematics B III.	Miss Fawcett, Math. Trip.	Prof. Brown, M.A., B.S.
Physics I. II. & III.	Mr. D. Williams, B.Sc.	Mr. J. Lyle, M.A. or Mr. J.M. Crofts, M.A. <i>a hoc Malherbe</i>
Chemistry I.	Mr. J. Muller, B.A.	Mr. H.C.L. Bloxam.
Chemistry II.	Mr. J.M. Crofts, M.A., B.Sc.	Mr. J. Muller, B.A.
Prac. Chem. 1st. day	Mr. H.C.L. Bloxam	} jointly
Prac. Chem. 2nd. day	Mr. J. Muller, B.A.	
Prac. Chem.		
Botany I & II.	Prof. Schonland, M.A.	Prof. Dendy, D.Sc.
Geology I.	Mr. A.W. Rogers, M.A., F.G.S.	Mr. E.H.L. Schwarz
Geology II.	Mr. A.L. du Toit, B.A., F.G.S.	Mr. E.H.L. Schwarz
Biology (Botany)	Prof. Schonland, M.A.	Prof. Dendy, D.Sc.
Biology (Zoology)	Dr. Purcell, B.A.	Dr. Gilchrist, M.A.

B.A. HONOURS EXAMINATION.

SCIENCE.

Mathematics I.	Mr. E.T. Littlewood, M.A.	Prof. Brown, M.A.,
Mathematics II.	Mr. W.E. Malherbe, B.A.	Prof. Brown, M.A.
Mathematics III.	Miss Fawcett, Math. Trip.	Mr. S.S. Hough, M.A.
Physics I & II.	Mr. D. Williams	Mr. J.M. Crofts, M.A., B.Sc.
Chemistry I.	Mr. J.M. Crofts, M.A., B.Sc.	Mr. H.C.L. Bloxam
Chemistry II.	Mr. H.C.L. Bloxam	Mr. J. Muller, B.A.
Prac. Chem. 1st. day	Mr. H.C.L. Bloxam	} jointly
Prac. Chem. 2nd. day	Mr. J. Muller, B.A.	
Prac. Chem. 3rd. day	Mr. H.C.L. Bloxam	
Botany I & II.	Prof. Schonland, M.A.	Prof. Dendy, D.Sc.

Chairman: Hon. Sir C. Abercrombie Smith, M.A.

SURVEY EXAMINATION.

Arithmetic	Mr. W.E. Malherbe, B.A.	Mr. E.M. Binckes, B.A.
Algebra	Mr. E.M. Binckes, B.A.	Mr. W.E. Malherbe, B.A.
Geometry	Mr. J. Sutherland, M.A.	Prof. Morrison, M.A.
Plane Trigonometry	Mr. W.E. Malherbe, B.A. <i>Rendell</i>	Mr. S.S. Hough, M.A.
Spherical Trigonometry	Mr. S.S. Hough, M.A., F.R.S.	Mr. R.F. Rendell, B.A.
Coord. Geom. & Geodesy	Mr. E.T. Littlewood, M.A.	Mr. S.S. Hough, M.A.
Part I.		
Coord. Geom. & Geodesy	Mr. M.C. Vos, B.A.	Mr. S.S. Hough, M.A.
Part II.		

NEW SYLLABUS.

Arithmetic	Mr. W.E. Malherbe, B.A.	Mr. E.M. Binckes, B.A.
Geometry	Mr. J. Sutherland, M.A.	Prof. Morrison, M.A.
Trigonometry and Mensuration.	Mr. R.F. Rendell, B.A.	Mr. S.S. Hough, M.A.

Chairman: Hon. Sir C. Abercrombie Smith, M.A.

FIRST MINING EXAMINATION.

Mathematics I.	Miss Fawcett, Math. Trip.	Prof. Brown, M.A.
Mathematics II.	Mr. E.M. Binckes, B.A.	Prof. Morrison, M.A.
Dynamics	Mr. E.T. Littlewood, M.A.	Prof. Crawford, M.A.
Geometrical Drawing	Mr. W.M. Wallace, F.R.C.S.	Mr. Horne
Inorganic Chemistry	Prof. Martin, M.A.	Mr. J. Muller, B.A.
Metallurgy, etc.	Mr. J.G. Lawn, A.R.S.M.	Mr. J. Muller, B.A.
Prac. Chem. 1st. day	Mr. J.G. Lawn, A.R.S.M.	} jointly
Part I.		
Prac. Chem. 1st. day	Prof. Martin, M.A. and Mr. J.G. Lawn, A.R.S.M.	
Part II, 2nd. & 3rd. days		

Physics I. & II.	Mr. D. Williams, B.Sc.	Mr. J. Lyle, M.A.
Geology I.	Mr. A.L. du Toit, B.A.	Mr. A.W. Rogers, M.A. & A.L. Schwarz
Geology II.	Mr. A.W. Rogers, M.A.	Mr. E.H.L. Schwarz, A.R.C.
Geology Practical	Mr. A.W. Rogers, M.A. and	Mr. A.L. du Toit, B.A.

Chairman: Hon. Sir C. Abercrombie Smith, M.A.

17 Feb. 1905

Law Examiners.

Prelim. and Final LL.B.

Mr. Justice Kettle

Mr. Justice Lawrence

Mr. Justice Wessels

Mr. Justice Dom-Wilson (fathering whom, Mr. Justice Hopley)

Chairman Mr. Advocate Searle.

Law Certificate and Civil Service Lower Law.

Mr. Advocate Clore

Mr. Advocate Goubert

Mr. Advocate Manfred Nathan

Mr. Advocate Rainford

Mr. Advocate H. S. van Zyl

Mr. Advocate Percy Jones.

Mr. Advocate Barber

Mr. Justice Fawkes

Mr. Advocate Labretour

Music Examiners

Practical : Frederick Cliffe  
 Stewart Macpherson  
 S. P. Waddington

Theoretical : A. J. Greenish, Mus. Soc.  
 F. J. Reid, Mus. Soc.

It was resolved that the appointment of Examiners in Practical Physics stand over till next meeting, and that the announcement of the appointment of practical examiners in Chemistry be postponed till after next meeting.

19/5/05

Comptroller  
 Buchanan  
 VC

Special Meeting, 25th February, 1905.

A Special Meeting of the University Council was held on February 25th.

attendance

There were present

The Vice-Chancellor (in the chair)  
The Pro Vice-Chancellor

Prof. Beattie  
Sir Bessie Barry  
Rev. Dr. Flint  
Mr. Fremantle  
Dr. Gregory  
Prof. Kahn  
Rev. W. O. Jenkins.  
Prof. Logeman  
Rev. Prof. Marais  
Prof. Mackenzie

Prof. Marten  
Hon. T. X. Merriman  
Prof. McDougall  
Prof. Ritchie  
Rev. R. M. Russell.  
Mr. Schreiner  
Prof. Walker  
Mr. Whetton.  
Hon. Sir C. Abnerombie Smith.

Report of  
Building  
Com<sup>rs</sup>

The following Report submitted by the Building Committee was adopted.

The Committee begs to report as follows:-

1. A deputation from the Committee waited upon the Colonial Secretary on Monday last and submitted a request for an assurance of a further building grant of £15000.
2. After hearing the views of the deputation the Colonial Secretary promised to forward a written reply at an early date.
3. The Colonial Secretary's reply has not yet come to hand.
4. The Committee therefore recommends that the Special meeting of the Council be adjourned for a fortnight to give the Committee an opportunity of considering the matter fully and that any member unable to be present be allowed to vote by proxy.

Com<sup>rs</sup>  
19/5/05

J. Schreiner  
VC

CONFIDENTIAL.

BUSINESS

Minutes to be read.

# University of the Cape of Good Hope.

3 Letter from Miss Marie V. Williams, B.A., University Scholar, intimating that she had passed the Classical Tripos and expressing her gratitude for having been enabled by means of the Scholarship to prosecute her studies at Cambridge.

4 Letter from Miss Fawcett intimating that she will be unable to correct the papers set by her for the fourth year of the B.A. Examination in England.

## QUARTERLY COUNCIL MEETING:

5 Invitation by the Council of the University of London requesting the Council to appoint one or more Delegates to the installation of Edmund James, James, Ph.D., LL.D., as President of the University, on October 17th, 1905.

6 Report of the Vice-Chancellor's Committee: The Committee reports that it has admitted 1,079 B.A. to the Intermediate Examination in Arts.

## SECOND NOTICE.

7 Election of a Vice-Chancellor and of a Pro-Vice-Chancellor to hold office for a period of two years from August 21st.

8 Appointment of Standing Committees:

Vice-Chancellor's Committee,  
Literature Committee,

University Offices,

Huguenot Memorial Buildings,

Queen Victoria Street, Cape Town

9th August, 1905.

The next Quarterly Meeting of the Council will be held on Friday, 11th August, at 10 a.m., resuming if necessary on Saturday, 12th August, at 10 a.m.

W. THOMSON,

Registrar.

[OVER.]



1905  
115  
...all are gathered together...  
...of the Civil Service...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

AVENUE TO THE CIVIL SERVICE

...University course of study should...  
...of the Board known...  
...of the Civil Service...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

IMPERFECT ADAPTATION

...of the service of examination to the...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

...years in the service of Government...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

...of the Second Division on the...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

IMPERIAL DIVISION OF GLEIBES

...of the British Dominions...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

...of the Civil Service...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...

...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...  
...of the University...  
...of the Government...  
...of the public...  
...of the nation...  
...of the world...



4 March 05

4th March, 1905.

The Special Meeting of Council adjourned from February 25th was held this day.

attendance

There were present

Prof. Beattie	Prof. Morrison
Rev. Dr. Flint	Prof. Inge
Rev. W. O. Jenkins	Prof. Ritchie
Rev. Dr. Kolbe	Rev. J. M. Russell
Prof. Logeman	Hon. W. P. Schreiner
Prof. Mackenzie	Mr. Earle
Prof. Martin	Prof. Walker
	Mr. Whitton

The Registrar also attended.

Report of  
Building Com<sup>tee</sup>

The following Report of the Building Committee was submitted:

### Report of the Building Committee.

The Committee submits the following Report:-

1. That the following letter has been received from the Under Colonial Secretary:-

"In reference to the request made by your deputation on the 20th instant, I am desired by the Colonial Secretary to express his regret that he sees no prospect of being able to add to the grant of £15,000 originally resolved upon by Government.

As it is intended, however, to replenish the Government loan fund for Educational purposes, he will before long be in a position to consider an application for the loan of such an amount as may be deemed necessary for the purpose in view, not exceeding the sum of £15,000."

6 March 05

2. That as the lowest tender for the complete building, after allowing for certain reductions which in the opinion of the Quantity Surveyor <sup>may be made</sup> without materially interfering with the main design, will amount to about £60,000, and as the amount in hand for building purposes is about £36,000, the Committee is of opinion that the scheme as a whole should not be proceeded with at present.

3. That it has considered a proposal to carry out the scheme in brick instead of in stone, thus reducing the cost of the complete structure by a sum estimated by the Quantity Surveyor at about £26,000.

This proposal in the opinion of the Committee should under no circumstances be entertained.

4. That the Quantity Surveyor has submitted a Report to the Committee stating that it would be possible, instead of carrying out the whole scheme at once, to proceed with the building in two stages, each of which would be complete in itself, viz: (a) The Hall, including the front entrance and the staircase wings, at a cost of about £37,000, on the basis of the lowest tender received.

(b) The Council Chamber, Committee Rooms and the whole of the building except the Hall, at a cost of about £37,000.

[ N.B. (a) and (b) partially overlap and hence the amounts when added together do not represent the true cost of the whole building if completed ]

5. That inasmuch as building the portions mentioned in 4(b) will not only provide the accommodation most urgently needed but will produce a revenue in the form of rents for those portions of the

4 March 05.

building which are not required at present, the committee recommends that this portion of the building be proceeded with at once, and that the committee be authorized to open negotiations with the lowest tenderer for the erection of the portions mentioned in 4(b) on the understanding that such tenderer shall be bound to carry out the remaining portions of the entire building at the price indicated in his tender if the Council should find it possible within a stated time (say two years) to give effect to the whole scheme.

Sections 1, 2, 3 and 4 of the Report were adopted.

After discussion a vote was taken on the recommendation of the Committee contained in paragraph 5 with the following result:

For the ~~motion~~ adoption of the recommendation :- (14)

Rw. Dr. Flint	Rw. W. O. Jenkins	Rw. Dr. Koller
Prof. Logeman	Prof. Martin	Prof. Nuttall
Prof. Ritchie	Rw. J. M. Russell	Mr. Schreiner
Mr. Searle	Prof. Walker	Mr. Whitton

By proxy : Rw. Dr. Macgowan,  
Mr. Fremantle.

Against: (4).

Prof. Beattie	Prof. Mackenzie
Prof. Morrison	

By proxy : Mr. Munro

The recommendation of the committee was therefore adopted by 14 votes to 4.

Confined  
7/3/05

J. Buchanan  
Vc

CONFIDENTIAL.

# University of the Cape of Good Hope.

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**QUARTERLY COUNCIL MEETING :**  
**19th May, 1905.**

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**SECOND NOTICE.**

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University Offices,  
Huguenot Memorial Buildings,  
Queen Victoria Street, Cape Town  
17th May 1905.

The next Quarterly Meeting of the Council will be held on Friday, 19th May, at 10 a.m., resuming if necessary on Saturday, 20th May, at 10 a.m.

W. THOMSON,  
Registrar.

## BUSINESS.

1. Minutes to be read.
2. Letter from the Right Rev. Dr. Gibson, asking for leave of absence until May, 1906.
3. Letter from the Rev. Dr. Espin, expressing his thanks for the resolutions of the Council passed at its last meeting.
4. Letter from the Under Colonial Secretary reporting the appointment of Mr. Josiah Slater, M.L.A., as a member of Council, in place of the Rev. Dr. Espin, resigned.
5. Letter from the President and the Secretary of Convocation, announcing the re-election of Mr. Charles Murray, M.A., as Secretary of Convocation.
6. Appointment of a member of the South African College Council to hold office for one year in place of the Hon. Mr. Justice Graham, resigned; and of a member to hold office for three years in place of the Hon. Mr. Justice Maasdorp, whose office has become vacant through effluxion of time.



→ Rev. J. E. Marsh

→ Maasdorp

7. Report of the Vice-Chancellor's Committee :

The Committee reports as follows :—

- (1.) That it has admitted the following persons to the Intermediate Examination :—  
 Jennie Kincaid Cryer.  
 Margaret Helen Klamborowski.  
 Hyman Miller.
- (2.) That it has authorized the honorarium of the Secretary of the Examination Committee at Grahamstown to be increased from £10 to £20.
- (3.) That it has authorized the payment of an annual honorarium of £10 to the Secretary of the Education Department of Natal for acting as local Secretary for the University Examinations in that Colony.

8. Report of the Scholarships Committee.

The Committee reports that having considered the Reports of the Examiners for the M.A. Examination in Philosophy, it is unanimously of opinion that the application for a fellowship submitted by Mr. D. Lategan, M.A. should not be entertained.


9. Report of the Examiners Selection Committee.

The Committee reports that it has made the following appointments in place of examiners unable to act :

- B.A. Honours Examination—Classics III (c) : Mr. W. A. Russell, M.A.  
 LL.B. Examinations : Mr. Advocate Labistour, K.C., Attorney General of Natal.

School Elementary Examination—Descriptive Geography :  
Dr. F. A. Clüver, B.A.

The Committee further reports that it has appointed the Rev. A. Moorrees to act as Moderator in Dutch for the School and Matriculation Examinations, in place of Dr. Hoogenhout, ineligible to act.

- 
10. Appointment of Examiners for the Second and Final Mining Examinations.\*
  11. Application from the Council of the Transvaal Technical Institute requesting that Mine Descriptions be omitted from the syllabus of the Final Mining Examination.
  12. Report of the Examiners for the Cornwall and York Prize.  
[N.B.—The report will be read.]
  13. Report of the Committee appointed to deal with the publication of the Reports of Examiners for 1904.\*
  14. Report of the Building Committee.\*
  15. Report of the Survey Committee.\*
  16. Report of the History Committee.\*
  17. Report of the Joint Committee of Literature and Science.\*
  18. Report of the Literature Committee.
  19. First Report of the Committee on English.\*
  20. Report of the Matriculation Committee appointed in August, 1904.\*  
[See also § 21 (1).]
  21. Notices of Motion standing over from previous Meetings.
    - (1.) BY PROFESSOR VILJOEN :—
      - (a) That the maximum of marks obtainable in Modern Languages be raised from 200 to 300, each section having 100 marks, and that the minimum required be 60.
      - (b) That in the case of Dutch at the Matriculation Examination candidates may be required (under Section B) to write a short composition.
    - (2.) BY PROFESSOR BEATTIE :
      - (a) That in and after December, 1906, the subjects for the Intermediate Examination be divided into two groups :—
 

A. English.	B. Mathematics.
Dutch.	Dynamics.
Latin.	Physics.
Greek.	Chemistry.
German.	Botany.
French.	Zoology.
History.	Geology.

\* See Separate Papers.

- (b) That candidates for the Intermediate Examination may not take more than *six* of these subjects, at least two to be taken from each group.
- (c) That a committee be appointed to make any changes in the regulations, marks, and syllabuses which may be deemed necessary for the proper carrying out of (a) and (b).

(3.) BY MR. FREMANTLE :—

That it be an instruction to the Registrar to prepare and publish forthwith statistics showing in the case of each school and Colony, and for each School and University Examination, the number of candidates who passed in the various classes.

22. Date of the next Council Meeting to be determined in view of the meeting of the British Association.
23. Arrangements to be made for the publication of the Calendar.  
[Note.—The arrangement with Messrs. J. C. Juta & Co. has expired, and it will be necessary to make arrangements for a further period.]
24. Letter from a Graduate in Arts of the University applying for admission to the Final LL.B. Examination under the following circumstances :—  
The applicant was approved for admission to the B.A. degree in November, 1904, and passed the Civil Service Preliminary LL.B. in December of that year. Had he entered as an ordinary candidate, and paid the full fee, he would be entitled to enter for the Final LL.B. Examination in 1905. He now requests to be admitted to that examination on payment of the full fees for the Preliminary and Final Examinations.
25. Suggestion to amend the conditions of tenure of Matriculation Exhibitions so as to include candidates who continue their studies in this country with a view to passing the First Professional Medical Examination of the Scottish Universities.
26. Letter from the Superintendent of Education of Natal recommending that the History and Science of Paideutics be included as a subject for the B.A. Pass Examination either in the Department of Literature or in that of Science.
27. Memorandum to be submitted by Prof. Beattie with reference to the Practical Examinations in Science.\*
28. Appointment of Examiners in Practical Physics.
29. Letter from the Hon. J. H. Hofmeyr and Prof. de Vos submitting resolutions with reference to language simplification adopted by the Dutch Language Congress.
30. Financial Statement to be submitted by the Registrar.\*
31. Miscellaneous.

\*See Separate Papers.

19 May 05

19th May, 1905.

A meeting of the University Council was held this day.

attendance

There were present

	The Vice-Chancellor (in the chair)
	The Pro Vice-Chancellor
Prof. Beattie	Prof. Martin
Dr. Beck	Rev. Dr. Marais
Rev. A. P. Bender	Prof. J. T. Morrison
Mr. Clark	Prof. H. Steutt
Rev. Dr. Florit	Prof. Ritchie
Mr. Fremantle	Rev. J. M. Russell
Dr. Gregory	Mr. Josiah Slater
Prof. Hahn	Hon. Sir C. Abercrombie Smith
Rev. W. O. Jenkins	Prof. Walker
Rev. Dr. Kolbe	Prof. Viljoen
Prof. Logeman	Mr. Whitton
Prof. Mackenzie.	

The Registrar and Assistant Registrar also attended

minutes

The Minutes of the previous ordinary meeting and of the special meeting were read and confirmed.

leave of absence

A letter from Dr. Gibson was read asking for leave of absence till May 1906. The request was granted.

letter of thanks: Dr. Espin.

A letter from Dr. Espin was read expressing his thanks for the resolutions passed at the last meeting of the Council with reference to his resignation and his recent bereavement.

Mr Josiah Slater appointed member of Council.

A letter from the Under Colonial Secretary was read reporting the appointment of Mr Josiah Slater, M.L.A., as a member of Council in place of the Rev. Dr. Espin, resigned.

appointment of Secretary of Convocation.

A letter was read from the President and Secretary of Convocation announcing the reelection of Mr Charles Murray, M.A., as Secretary of Convocation.

appointment of members of S.A. College Council.

The Rev. J. E. Marsh was appointed a member of the South African College Council for one year in the place of the Hon. Mr Justice Graham, resigned, and the Hon. Mr Justice Maasdoop, whose period of office had



19 May 05

Report of Vice  
Chancellor's Com<sup>tee</sup>

expired was re-elected for a period of three years.

The following report of the Vice-Chancellor's Committee was submitted:

The Committee reports as follows:—

- (1.) That it has admitted the following persons to the Intermediate Examination:—  
Jennie Kincaid Cryer.  
Margaret Helen Klamborowski.  
Hymen Miller.
- (2.) That it has authorized the honorarium of the Secretary of the Examination Committee at Grahamstown to be increased from £10 to £20.
- (3.) That it has authorized the payment of an annual honorarium of £10 to the Secretary of the Education Department of Natal for acting as local Secretary for the University Examinations in that Colony.

Fellowship request.

The following report of the Scholarships Committee was submitted and adopted:

The Committee reports that having considered the Reports of the Examiners for the M.A. Examination in Philosophy, it is unanimously of opinion that the application for a fellowship submitted by Mr. D. Lategan, M.A. should not be entertained.

Mr. Le Roux: course  
of study approved

A letter was read from Mr. Le Roux asking the Council to approve of his proceeding with a course of study in Theology or with a course of Classics in Europe. It was decided to approve of the courses proposed and to delay the payment of the scholarship for the present as requested by Mr. Le Roux.

Report of Examiners  
Selection Committee

The following report of the Examiners Selection Committee was submitted and adopted:

The Committee reports that it has made the following appointments in place of examiners unable to act:

B.A. Honours Examination—Classics III (c): Mr. W. A. Russell, M.A.

LL.B. Examinations: Mr. Advocate Labistour, K.C., Attorney General of Natal.

School Elementary Examination—Descriptive Geography:  
Dr. F. A. Cliver, B.A.

The Committee further reports that it has appointed the Rev. A. Moorrees to act as Moderator in Dutch for the School and Matriculation Examinations, in place of Dr. Hoogenhout, ineligible to act.

The Registrar reported that the following letters had been received from Mrs. J. Harry Johns, with reference to the appointment of Examiners for the Second and Final Mining Examinations:

19 May 05

9th May, 1905

Dear Sir,

I am in receipt of your telegram dated the 5th inst. I am willing to act as Chairman of the Second and Final Mining Examinations as I did last year, and am making enquiries from the old examiners living in Johannesburg to see how many of them will take the papers in which they examined last year. I hope to write to you again before the 19th inst.

15th May, 1905

Dear Sir,

I have ascertained that the following examiners are willing to act again in the Second Mining Examination:-

H. Weldon, J. G. Lawn, & Co. & Co.

Mr. Goff is no longer with Messrs Ekstein & Co but is in private practice. In place of Mr. Robeson, who is probably going to America for his holidays, and consequently declines to act, Mr. J. A. Vaughan, M. I. Mech. E., M. Am. S. Mech. E., is willing to act. His official position is Chief Inspector of Machinery, Government Mining Department.

Mr. Pizzighelli is out of town. I gathered some time ago that he did not wish to act again as examiner. However if on his return he definitely declines to act,

I do not think that there will be any difficulty in getting a suitable man to replace him.

For the Final Mining Examination the following will act:-

J. Harry Johns, J. G. Lawn, L. Wilms,  
S. H. Pearce, J. R. Williams.

Mr. Wood declines to act through want of time. Mr. David Gilmour, A. M. I. C. E., is willing to act. He is Chief Mechanical Engineer to the Johannesburg Consolidated Investment Co.

With respect to Surveying, the same remark as was made above applies with regard to Mr. Pizzighelli.

Yours &c.  
J. Harry Johns.

Appointment  
of Examiners  
for Second & Final  
Mining Exams

19 May 1905

Omission of  
mine description  
from final Mining  
Examination.

It was resolved to adopt the suggestions of  
Mrs Johns and to reappoint Professors Hahn and  
Payze for the same papers as they took in 1904.

The following letter was read from the Secretary  
of the Transvaal Technical Institute:

Sir,

I am instructed by the Council of the  
Transvaal Technical Institute to ask you to bring  
before the Council of the University of the Cape  
of Good Hope the following resolution of the Board  
of Studies of this Institute:

"That, in the opinion of the Board of  
"Studies, students sitting for the Diploma  
"in Mining Engineering of the University of  
"the Cape of Good Hope should not be required  
"to present a Geological and Technical des-  
"cription of a mine as heretofore, and as men-  
"tioned in paragraph (4), section (3) of the  
"regulations for the examination in Mining  
"Engineering given in the Calendar of the  
"University of the Cape of Good Hope."

The reasons which induce the Council of  
the Technical Institute to urge the acceptance of  
the proposal contained in the foregoing resolution  
are briefly as follows:

(a) It has been found by experience that the  
students devote an altogether disproportionate time  
to the preparation of the mine description or report,  
the educational benefit of which does not warrant  
so much of the students' time.

(b) It is found impossible, in spite of the  
safeguards mentioned in paragraph (5) section (3),

to ensure that the real work of the various candi-  
dates is fairly represented and the respective merit  
indicated by the marks awarded.

(c) The actual state of knowledge of students  
in the fourth year necessitates greater attention to  
lectures, class work, and problems in other subjects  
than can even now be obtained in the time available.

(d) The reasons, which were originally urged  
at the Kimberley School, where there were only two  
professors, no longer hold with the increased staff  
of the Transvaal Technical Institute.

The Council of the Transvaal Technical  
Institute express the hope that the Council of the  
University of the Cape of Good Hope will see its  
way to adopt the above proposal of the Board of  
Studies, particularly in view of the fact that next

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year the Third Year students of the Technical Institute and the Second Mining candidates, i.e. the Third Year students of the Cape, will, in the Mining School of the Transvaal Technical Institute, be taking the same course and will be working under the same general conditions.

I have the honour to be,

Sir,

Your obedient servant,

*John G. ...*

SECRETARY.

In connection with the letter the Registrar reported that he had ascertained the views of Mr. Johns, the Chairman of the Examiners Committee, and of Mr. Lunn and that both were decidedly in favour of omitting "Mini Descriptions" from the syllabus of the Final Mining Examination.

It was accordingly decided that this subject be omitted from the Syllabus for this year and thereafter.

Cornwall & York Prize: completed award

Reports were submitted from the Examiners for the Cornwall and York Prize with reference to the completed Thesis submitted by Mr. Logeman. It was decided, in accordance with the recommendations of the Examiners, to award the moiety of the Prize withheld in the first instance but not to <sup>authorize</sup> ~~publish~~ the essay in its present form.

Reports of Examiners

The following Report of the Committee appointed to deal with the Reports of the Examiners was submitted:

The Committee begs to report that the Reports sent in by the Examiners for the School and Matriculation examinations have been published in accordance with the resolution of the Council in May, 1904. With reference to the Reports on the Higher examinations the Committee begs to point out that the publication of these would involve considerable expense while they are of direct importance to only a very few institutions. The Committee has therefore deferred the publication of these Reports in order to obtain an expression of the Council's views on the matter.

19 May 05

The Committee suggests:-

(1) That the purposes of these Reports would be sufficiently served if the institutions concerned were informed that the Reports will be obtainable for a limited period on application to the Registrar.

(2) That in future similar Reports be insisted upon only in the case of the School and Matriculation examinations; and that the examiners for the Higher examinations be informed that Reports need not be sent in unless there be any important matter calling for attention.

It was decided, after discussion, to adopt the first suggestion of the Committee but not the second.

The following Report of the Building Committee was submitted and adopted:-

The Committee reports that, as a result of negotiations entered into with Messrs F. B. Smith & Son, the lowest tenderers, in terms of the resolution of the Council adopted at its Special Meeting on March 4th, a contract has been concluded with that firm for the erection of the front and side portions of the proposed buildings for the sum of £31,800, the work to be completed by December 31st, 1906.

As the sum of about £35,000 will be available, the balance will be sufficient to pay all fees which have been incurred, so that should the remaining portion of the building be not proceeded with, there will be no outstanding liabilities in connection with the work actually performed.

The contract also provides for the completion of the whole scheme, should the Council be in a position before the above date to authorize the work being proceeded with for the sum originally contemplated by Council.

Report of Building  
Committee

19 May 05  
 Survey Regulations.  
 The following Report of the Survey Committee was submitted:

**AMENDED REGULATIONS.**

(To come into force in 1906<sup>†</sup>.)

The Committee reports, that, in terms of the resolution of the Council in May, 1904, it has further considered the new Regulations for the Survey Examination, and that in order to meet the views of the Surveyors-General of the various South African Colonies, it recommends that these regulations be confirmed in the following form:

1. The examination in the Theory of Land Surveying will consist of two parts, as follows:

- PART I.**—(1.) Algebra.  
 (2.) Geometry.  
 (3.) Plane Trigonometry and Mensuration.
- PART II.**—(1.) Spherical Trigonometry and Astronomy.  
 (2.) Co-ordinate Geometry and Differential Calculus.  
 (3.) Theory of Surveying  
 (4.) Optics and Heat.

2. The parts may be taken simultaneously, or Part II. at a date subsequent to Part I.

3. No candidate will be admitted either to Part I. or to the examination as a whole unless he has passed the Matriculation Examination of this University, or in that examination has passed in all the compulsory subjects except Latin, or has satisfied the University Council that he has passed an examination of equivalent standard.

4. Every candidate entering for the whole of this examination for the first time must pay a fee of fifteen pounds. If the candidate withdraw, or fail to present himself at the examination, or fail to pass it, the fee will not be returned to him, but he will be entitled to present himself at any subsequent examination in the Theory of Land Surveying on payment of an additional fee of two pounds each time that his name is registered.

When the parts are taken in different years the fees will be as follows:

First Registration: Part I., six pounds; Part II., nine pounds.

Re-registration\*: One pound for each part.

\* This fee will be applicable to candidates registered under the old regulations, but such candidates are reminded that they cannot be admitted under the amended regulations until they have complied with the conditions specified in paragraph 3.

**PARTICULARS OF THE FOREGOING SUBJECTS.**

[Three hours will be allowed for each paper except in the case of Optics and Heat in which two hours will be allowed for the written and four for the practical work.]

5. **ALGEBRA.**—Up to and including the Binomial Theorem, the progressions, theory of logarithms. Problems involving permutations and combinations, equations of the first and second degree. Graphical methods for the approximate solution of equations.

<sup>†</sup> Candidates who have complied with the conditions of Section 3 will be allowed to take Part I. in 1905. See also the first note to paragraph 14.

**12. THEORY OF SURVEYING.**

- (a) Construction and adjustment of Surveying Instruments, viz., Theodolites, Tacheometer (ordinary), Sextant and Artificial Horizon, Levelling Instruments and Barometers.
- (b) General Principles of Surveying.
- (1.) Methods of measuring base lines with various degrees of accuracy, and corrections and reductions of measurements.
  - (2.) Principles of the procedure for the precise measurement of angles (horizontal and vertical).
  - (3.) Principles of Triangulation, Traversing and Levelling, and the application of these principles to the procedure for the proper carrying out of these operations with various degrees of accuracy.
  - (4.) Reduction and computation of Triangulation, Traversing and Levelling operations, including deduction of the formulas generally used for these purposes.
  - (5.) Solution of miscellaneous problems in Surveying—including the determination of position by observations to three known points, and any variations of this problem.
  - (6.) Computation of areas and contents—deduction of formulas for—and application.
  - (7.) Principles of Barometric observations and of correcting and reducing such observations—with application.

6. **GEOMETRY.**—The subject matter of Euclid Books I., IV., VI. and XI., but not necessarily with strict adherence to Euclid's method and order. Mechanical drawing to scale.

7. **PLANE TRIGONOMETRY.**—Angular measurement and the comparison of different angular units (excluding grades).

Definition of and relations between trigonometrical ratios of angles less than  $\pi/2$  and  $\pi/4$ . Angles with given trigonometrical ratios.

The trigonometrical ratios of the sum and difference of angles.

Application of logarithmic tables to trigonometrical computation.

Solution of triangles, calculation of heights and distances (simple cases).

(No question will be set regarding the radii of the associated circles of a triangle.)

Candidates are expected to be especially familiar with the solution of problems regarding heights and distances, and with the use of mathematical tables.

8. **MENSURATION.**—Calculation of the areas of rectilinear figures from the co-ordinates of their vertices, or from other data. The approximate determination of areas with curvilinear boundaries.

9. **SPHERICAL TRIGONOMETRY AND ASTRONOMY.**—Geometry of the sphere. Great and small circles on a sphere. Spherical triangles and their fundamental properties. Solution of spherical triangles. Spherical excess. Variation of parts of triangles, and the application of spherical trigonometry to astronomical problems connected with the determination of Latitude, Time, Longitude and Azimuth.

**10. CO-ORDINATE GEOMETRY.**—

Rectangular Co-ordinates. The Geometry of a straight line and circle treated by co-ordinate methods (not including methods of abridged notation). The Elements of the Parabola and Ellipse.

11. **DIFFERENTIAL CALCULUS.**—Fundamental definitions. Differentiation of simple functions. Determination of maximum and minimum values, and simple application to geometry of curves.

Practical and elementary theory of the method of least squares, as treated in Chapter I. of Merriman's *Precise Surveying*.

N.B.—The Practical examination will be so arranged as to test the student's thorough knowledge of his subject, and his capacity to adapt apparatus placed at his disposal to the desired end.

**MARKS AND STANDARDS.**

14. The number of marks assigned to each subject and the minimum required for a pass will be as specified in the following table:

Subjects.	Marks.	
	Maximum.	Minimum required.
<b>PART I.</b>		
Algebra § .. ..	250	75
Geometry .. ..	250	75
Plane Trigonometry and Mensuration .. ..	250	75
Aggregate .. ..	750	375 †
<b>PART II.</b>		
Spherical Trigonometry and Astronomy .. ..	300	90
Co-ordinate Geometry and Differential Calculus ..	300	90
Theory of Surveying ..	300	90
Optics and Heat .. ..	300	90
Total Aggregate .. ..	1950	975 ††

§ Candidates who pass Part I. in 1905, taking Arithmetic in place of Algebra in accordance with the provisional amended Regulations previously issued, will be required to take Algebra along with the subjects of Part II. and to pass in that subject as well as in Part II. before being entitled to a certificate.