

**CALENDAR**

**OF THE**

**RHODES UNIVERSITY**

**COLLEGE,**

**GRAHAMSTOWN.**

---

**1910.**

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OF THE

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GRAHAMSTOWN.

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1910.

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GRAHAMSTOWN:  
SLATER & COMPANY,  
MCMIX.

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## CALENDAR, 1910.

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### JANUARY.

F. 21. College Council Meeting.

### FEBRUARY.

M. 7. University Council Meeting.

Th. 10. Annual Electoral Meeting of Senate.

F. 11. First Term begins at 9 a.m.

F. 18. College Council Meeting.

### MARCH.

W. 9. Senate meets.

F. 18. College Council Meeting.

F. 25. Good Friday.

Sa. 26. The Right Hon. C. J. Rhodes died 1902.  
Holiday.

Su. 27. Easter Day.

M. 28. Easter Munday. Public Holiday.

### APRIL.

W. 6. Senate meets.

F. 8. First Term ends at 5 p.m.

F. 15. Second Term begins at 8 a.m.  
College Council Meeting.



## MAY.

- Th. 5. Ascension Day.  
W. 11. Senate meets.  
Su. 15. Whit Sunday.  
M. 16. Whit Monday. Public Holiday.  
F. 20. College Council Meeting.  
University Council Meeting.  
Tu. 24. Victoria Day.  
Sa. 28. R.U.C. Act of Incorporation assented  
to, 1904.

## JUNE.

- W. 8. Senate meets.  
F. 17. Second Term ends at 12.45 p.m.  
M. 20. College Council Meeting.

## JULY.

- F. 1. S. Andrew's College Department taken  
over by R.U.C., 1904.  
Tu. 5. The Right Hon. C. J. Rhodes born, 1853.  
F. 15. College Council Meeting.  
Sa. 16. Mr. Alfred Beit died, 1906.  
Th. 21. First Term's work of R.U.C. began  
1904.  
W. 27. Third Term begins at 8 a.m.

## AUGUST.

- W. 10. Senate meets.  
F. 19. College Council Meeting.  
Sa. 28. R.U.C. won Eastern Province Rugby  
Cup, 1909.

SEPTEMBER.

- W. 7. Senate meets.
- M. 12. R.U.C. Foundation Festival.
- F. 16. College Council Meeting.  
Third Term ends at 12.45 p.m.
- M. 19. University Council Meeting.
- W. 21. University Committees meet.
- Tu. 27. Fourth Term begins at 8 a.m.
- F. 30. Last day for lodging names and fees  
for University Examination.

OCTOBER.

- W. 12. Senate meets.
- M. 17. Public Holiday.
- F. 21. College Council Meeting.

NOVEMBER.

- M. 7. University Council Meeting.
- W. 9. King's Birthday. Senate meets.
- F. 18. College Council Meeting.
- F. 25. Fourth Term ends at 4 p.m.

DECEMBER.

- M. 5. University Examinations begin.
- F. 16. College Council Meeting.

## ALMANAC for 1910.

	JANUARY.					FEBRUARY.					MARCH.				
Sun.	2	9	16	23	30	6	13	20	27	6	13	20	27		
Mon.	3	10	17	24	31	7	14	21	28	7	14	21	28		
Tues.	4	11	18	25	1	8	15	22	1	8	15	22	29		
Wed.	5	12	19	26	2	9	16	23	2	9	16	23	30		
Thur.	6	13	20	27	3	10	17	24	3	10	17	24	31		
Fri.	7	14	21	28	4	11	18	25	4	11	18	25			
Sat.	1	8	15	22	5	12	19	26	5	12	19	26			
	APRIL					MAY.					JUNE.				
Sun.	3	10	17	24	1	8	15	22	29	5	12	19	26		
Mon.	4	11	18	25	2	9	16	23	30	6	13	20	27		
Tues.	5	12	19	26	3	10	17	24	31	7	14	21	28		
Wed.	6	13	20	27	4	11	18	25	1	8	15	22	29		
Thur.	7	14	21	28	5	12	19	26	2	9	16	23	30		
Fri.	1	8	15	22	6	13	20	27	3	10	17	24			
Sat.	2	9	16	23	7	14	21	28	4	11	18	25			
	JULY.					AUGUST.					SEPTEMBER.				
Sun.	3	10	17	24	31	7	14	21	28	4	11	18	25		
Mon.	4	11	18	25	1	8	15	22	29	5	12	19	26		
Tues.	5	12	19	26	2	9	16	23	30	6	13	20	27		
Wed.	6	13	20	27	3	10	17	24	31	7	14	21	28		
Thur.	7	14	21	28	4	11	18	25	1	8	15	22	29		
Fri.	1	8	15	22	5	12	19	26	2	9	16	23	30		
Sat.	2	9	16	23	6	13	20	27	3	10	17	24			
	OCTOBER.					NOVEMBER.					DECEMBER.				
Sun.	2	9	16	23	30	6	13	20	27	4	11	18	25		
Mon.	3	10	17	24	31	7	14	21	28	5	12	19	26		
Tues.	4	11	18	25	1	8	15	22	29	6	13	20	27		
Wed.	5	12	19	26	2	9	16	23	30	7	14	21	28		
Thur.	6	13	20	27	3	10	17	24	1	8	15	22	29		
Fri.	7	14	21	28	4	11	18	25	2	9	16	23	30		
Sat.	1	8	15	22	5	12	19	26	3	10	17	24	31		

# ALMANAC for 1911.

5

	JANUARY.					FEBRUARY.					MARCH.				
Sun.	1	8	15	22	29	..	5	12	19	26	..	5	12	19	26
Mon.	2	9	16	23	30	..	6	13	20	27	..	6	13	20	27
Tues.	3	10	17	24	31	..	7	14	21	28	..	7	14	21	28
Wed.	4	11	18	25	..	1	8	15	22	..	1	8	15	22	29
Thur.	5	12	19	26	..	2	9	16	23	..	2	9	16	23	30
Fri.	6	13	20	27	..	3	10	17	24	..	3	10	17	24	31
Sat.	7	14	21	28	..	4	11	18	25	..	4	11	18	25	..
	APRIL.					MAY.					JUNE.				
Sun.	..	2	9	16	23 30	..	7	14	21	28	..	4	11	18	25
Mon.	..	3	10	17	24 ..	1	8	15	22	29	..	5	12	19	26
Tues.	..	4	11	18	25 ..	2	9	16	23	30	..	6	13	20	27
Wed.	..	5	12	19	26 ..	3	10	17	24	31	..	7	14	21	28
Thur.	..	6	13	20	27 ..	4	11	18	25	..	1	8	15	22	29
Fri.	..	7	14	21	28 ..	5	12	19	26	..	2	9	16	23	30
Sat.	1	8	15	22	29 ..	6	13	20	27	..	3	10	17	24	..
	JULY.					AUGUST.					SEPTEMBER.				
Sun.	..	2	9	16	23 30	..	6	13	20	27	..	3	10	17	24
Mon.	..	3	10	17	24 31	..	7	14	21	28	..	4	11	18	25
Tues.	..	4	11	18	25 ..	1	8	15	22	29	..	5	12	19	26
Wed.	..	5	12	19	26 ..	2	9	16	23	30	..	6	13	20	27
Thur.	..	6	13	20	27 ..	3	10	17	24	31	..	7	14	21	28
Fri.	..	7	14	21	28 ..	4	11	18	25	..	1	8	15	22	29
Sat.	1	8	15	22	29 ..	5	12	19	26	..	2	9	16	23	30
	OCTOBER.					NOVEMBER.					DECEMBER.				
Sun.	1	8	15	22	29	..	5	12	19	26	..	3	10	17	24 31
Mon.	2	9	16	23	30	..	6	13	20	27	..	4	11	18	25 ..
Tues.	3	10	17	24	31	..	7	14	21	28	..	5	12	19	26 ..
Wed.	4	11	18	25	..	1	8	15	22	29	..	6	13	20	27 ..
Thur.	5	12	19	26	..	2	9	16	23	30	..	7	14	21	28 ..
Fri.	6	13	20	27	..	3	10	17	24	..	1	8	15	22	29 ..
Sat.	7	14	21	28	..	4	11	18	25	..	2	9	16	23	30 ..

## INTRODUCTION.

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The desirability of provision being made for Higher Education in the Eastern Province by the establishment of a College in Grahamstown was pointed out as early as the year 1838.

In his deservedly famous letter on the subject of Education in Cape Colony, Sir John Herschel, in reference to the question of the training of Colonial men and women as teachers, says :—

“Supposing, however, the present exigencies provided for, the vacancies filled up, and the system in satisfactory action, there can be no doubt that an adequate supply of teachers for the future might be relied on without going, except perhaps occasionally, beyond the limits of the colony in their selection. A constantly progressive standard would be kept up by means of the South African College in Capetown, and a similar or better institution which, if not now, ere long it is to be hoped, will be established at Grahamstown.”

The first step towards carrying into effect Sir J. Herschel's recommendation was the foundation of

S. Andrew's College in 1855. The College and School Departments of that Institution, originally combined, became distinct in 1878 by the establishment of Government Aided Lectureships.

For twenty-six years the College Department of S. Andrew's successfully carried on University work, and was the only institution in Grahamstown drawing Government Grants under the Higher Education Act of 1874.

It continued, however, to be felt that the educational interests of these parts demanded the foundation of a University College which could rest on a wider basis and have a much more adequate equipment.

An effort in this direction was made about 1895, but proved unsuccessful, mainly owing to the lack of the necessary funds. It was not until the terms of the late Mr. Rhodes' will had been published that a fresh movement was set on foot, and this time with success.

A Provisional Committee was appointed. The Rhodes Trustees promised their support, and subsequently set apart the sum of £50,000. An appeal to the citizens of Grahamstown resulted in £16,584 being promised, whilst a contribution of £5,000 was made by the Directors of De Beers Consolidated Mines.

Having thus been established on a sound financial basis, the new institution was incorporated by Act of Parliament in May, 1904, and named the "Rhodes University College," in commemoration of the statesman to whose munificent provision for Higher Education the realisation of the scheme was primarily due.

A governing body was constituted, and the Professors hitherto connected with the College Department of S. Andrew's were transferred to the Rhodes College and, shortly afterwards, others were added.

There are at present Chairs in the following subjects :—

1. Latin with Classical Literature and Philology.
2. Greek and English.
3. Modern Languages.
4. Philosophy and History.
5. Pure Mathematics.
6. Physics and Applied Mathematics.
7. Chemistry and Metallurgy.
8. Botany.
9. Geology.
10. Zoology.
11. Law.

There are, in addition, Lecturers in Classics, Mathematics, and Modern Languages, and a Lecturer

and Demonstrator in Physics and Applied Mathematics, and an Instructor in Drawing.

Since November, 1904, the teaching has been carried on in the Drostdy buildings, which afford excellent accommodation, and are situated in close proximity to the Albany Museum and the Botanical Gardens. This site has now been acquired by the Council, and in the near future it is proposed to erect permanent buildings worthy of the only University College in the Eastern Province.

Mr. Alfred Beit, one of the Rhodes Trustees, bequeathed by his will (1906) the sum of £25,000 for the development of the College.

The Rhodes University College belongs to the whole of the Eastern Province, and upon the support of the Eastern Province its welfare is to a large extent dependent. This was strongly emphasised by the Superintendent-General of Education, to whose cordial support the College is greatly indebted. Speaking at the opening of a Public Elementary School at Grahamstown, in February, 1905, Dr. Muir (as reported) said :—

“ They had added the Rhodes University College to their system almost simultaneously with the lowest school of the system. Far be it from him to view the Rhodes College as belonging to Grahams-



town, and he hoped those concerned would never take that narrow view of the College. It was for the whole of the Eastern Province, and it was surely to be trusted that the other towns of the Eastern Province would have the common-sense and public spirit to come forward and support it, and view it equally as much their College as Grahamstown's (hear, hear). It was placed in Grahamstown as a matter of accident, and he hoped that the High Schools of the Eastern Province would also select talent to proceed to the College. Possibly, however, he was diverging a little from the business of the morning. He did not wish to dwell too much upon the Rhodes College at present, except just to try what could be done to interest outsiders in it, and show its position in reference to the general school system."

The following is an extract from Dr. Muir's Report for the year ending 30th June, 1904 :

"The passing of this Act, (The Rhodes University College Act, 1904) is the most important event which has taken place in connection with Higher Education during the year." After speaking of the wide foundation upon which it is based, Dr. Muir continues :—  
"It is essential to the well-being and success of the College that all Eastern Province towns should assist as far as they can, both financially and by means of students." In this connection section 5 of the Act of incorporation of the College may be quoted :—

“If any other scholastic institution, Town Council, Divisional Council, or local committee legally competent to do so should subscribe the sum of £500 to the Rhodes University College, or guarantee an annual payment of not less than £50 for not less than ten years, and should desire to have a representative on the Council of the Rhodes University College, it shall be lawful for the said Council, at any time or times that such contingency may arise, to increase their number, after a resolution passed to that effect by a majority of the then Council, and to give to the said scholastic institution, Town Council, Divisional Council, or local committee during the period of ten years, or such further period during which the said contribution be renewed or subscription continued, the right to nominate one person as an additional member of the College Council, and the said nominee or nominees shall have and enjoy all the same rights and privileges, and shall be subject to all the same rules and regulations as the twelve originally nominated members of the Council.”

According to the Act of Incorporation the Rhodes University College has been established “for the advancement of learning in the Eastern Districts of the Colony,” and is in this respect different from the other Colleges of Cape Colony which have no such specified geographical status. The Rhodes University College is the only College in the Eastern

Districts receiving grants under the Higher Education Act, while in the Western Province there are no less than four Colleges receiving such grants.

The larger Municipalities of the Eastern Districts have, for the most part, already officially recognized the Provincial Status of the Rhodes University College by instituting Bursaries and Scholarships tenable at the College.

Bursaries of different values have been established by the Municipalities of Port Elizabeth, Kingwilliamstown, Queenstown, Uitenhage and Kimberley. In addition to these the Port Elizabeth School Board has established three Scholarships of £40 each per annum, and there is also a Port Elizabeth Merchants' Scholarship of £40 tenable for three years.

In East London, though for financial reasons the Municipality has not so far established a system of Bursaries, private subscriptions have already enabled deserving students to pursue their studies at the College.

There is every reason to believe that as soon as the general financial situation improves every important centre in the Eastern Province and Native Territories will thus be officially connected with the College which was primarily intended to benefit the whole of this great area.

Act No. 21 of 1904.] [Promulgated 31st May, 1904.

# ACT

TO

## Establish the “ Rhodes University College.”

[Assented to 28th May, 1904.]

WHEREAS it is expedient for the advancement Preamble.  
of learning in the Eastern Districts of the  
Colony that an University College should be established  
at Grahamstown ; and whereas considerable sums of  
money have been contributed or guaranteed by certain  
inhabitants of Grahamstown and others for that  
purpose: Be it enacted by the Governor of the Colony  
of the Cape of Good Hope, with the advice and con-  
sent of the Legislative Council and the House of  
Assembly, as follows :—

1. A College for affording instruction in literature, Establish-  
ment and  
name of  
College.  
law, science and art and such other studies as may  
from time to time be prescribed by the University of  
the Cape of Good Hope shall be forthwith established  
at Grahamstown, and the same shall be called the  
“ Rhodes University College.”

2. No religious test shall be administered or pro- No religious  
test.  
posed to any person in order to entitle such person to  
be admitted as a student of the Rhodes University  
College or to hold office therein or to enjoy any  
advantages or privileges thereof.

Property  
vested in  
Council.

3. The Rhodes University College Fund already existing, and all money, assets, and other property, both movable and immovable, of every nature or description whatsoever now belonging, or which shall hereafter belong, accrue, or become due and payable to the Rhodes University College, is and shall be hereby vested in and be administered by a Council of seventeen members (subject to the proviso in section five of this Act), of whom six shall be quorum.

General  
functions  
of Council.

4. The general superintendence, management and direction of the affairs of the College, and of any department now or in future connected therewith, and the absolute control over all persons of every degree at any time holding office or being employed therein, shall be discharged and exercised by the said Council, which shall be called "The Rhodes University College Council."

Composi-  
tion of  
Council.

5. The said Council shall, subject to the proviso hereinafter stated, consist of twelve nominated and five elected members. Four members shall be nominated by the Governor; one each by the Divisional Council of Albany and by the Town Council of Grahamstown respectively; and one each by the authorities of the following six educational institutions at Grahamstown respectively, viz:—The Council of St. Andrew's College, the Trustees of Kingswood College, the Council of St. Aidan's College, the Public Schools Committee, the Council of the Diocesan School

for Girls, and the Trustees of the Wesleyan High School. The remaining five members shall be elected by all other guarantors and subscribers of not less than £50 to the Rhodes University College Funds, in the manner hereinafter stated in section six. Provided, however, that if any other scholastic institution, Town Council, Divisional Council, or local committee legally competent to do so should subscribe the sum of £500 to the Rhodes University College, or guarantee an annual payment of not less than £50 for not less than ten years, and should desire to have a representative on the Council of the Rhodes University College, it shall be lawful for the said Council, at any time or times that such contingency may arise, to increase their number, after a resolution passed to that effect by a majority of the then Council, and to give to the said scholastic institution, Town Council, Divisional Council, or local committee during the period of ten years, or such further period during which the said contribution be renewed or subscription continued, the right to nominate one person as an additional member of the College Council, and the said nominee or nominees shall have and enjoy all the same rights and privileges, and shall be subject to all the same rules and regulations as the twelve originally nominated members of Council. And provided further, that in case of any failure to nominate or elect the full number of members for the said Council, such failure

shall not affect the legal constitution or powers of the Council so long as the actual number of members of the said Rhodes University College Council shall not be less than a quorum.

Election of  
Council.

6. Within fourteen days from the passing of this Act or so soon thereafter as possible the Chairman of the Rhodes University College Executive Committee shall give notice by advertisement in the *Gazette* and the local papers, and within twenty-eight days from the passing of this Act or so soon thereafter as possible he shall hold or cause to be held at Grahamstown a General Meeting of all the electors duly qualified by section five for the election of the elective members of the Rhodes University College Council, and every such elector present in person, or by proxy if he reside at a greater distance than ten miles from Grahamstown, at the said meeting shall be entitled to one vote for each member of the said Council to be so elected, and the election shall be by ballot, and the five persons who shall have the greatest number of votes shall be declared duly elected. Every candidate shall be nominated in writing by not less than two duly qualified voters, such nomination to be addressed in the case of the first election to the Chairman of the Executive Committee; in cases of subsequent elections, nominations should be addressed to the Registrar of the Rhodes University College, and should be so lodged at least seven days before the election.



• No professor, teacher or other salaried official of the said College shall be eligible for nomination or election to the Rhodes University College Council.

Persons ineligible as members of Council.

7. Within fourteen days after election of elected members the Governor and the several persons or institutions entitled to nominate shall communicate to the Chairman of the Rhodes University College Executive Committee the names of the members of Council nominated by them respectively, and within seven days of receiving such communications as aforesaid the said Chairman shall publish in the *Gazette* and the local papers the full list of both nominated and elected members, and shall in such publication fix the day of the first meeting of the said Council, which shall not be less than seven or more than fourteen days from the first date of such publication.

Publication of names of Council.

Date of first meeting.

8. At the first meeting of the Council so nominated and elected as aforesaid, immediately after the election of a Chairman and Vice-Chairman as stipulated in section nine of this Act, the members of the said Council shall draw lots for the purpose of fixing on one-third of their number, as near as may be, to vacate their seats at the end of three years from the date of this first meeting, and on another third as aforesaid to vacate their seats at the end of four years from the said date, and the remaining number as aforesaid shall remain in office for five years from the said date.

Retirement of members of Council by rotation.



One month before the retirement from office of any members as the result of the said drawing of lots, the Registrar shall give notice to the persons or bodies who nominated such members and shall call upon them to make fresh nominations, and the said Registrar shall notify the vacancies to the Chairman, who shall take immediate steps for the election of a successor or successors to any elected member of Council so retiring as aforesaid: and such newly nominated or elected members shall remain in office for five years from the date of their nomination or election respectively: Provided always that any member of Council so retiring from office shall be eligible for re-nomination or re-election.

Appoint-  
ment of  
Chairman  
and Vice-  
Chairman.

9. At the first annual meeting of the Council the members shall elect one of their number to be Chairman of the Council, who shall preside at all meetings of the Council, whenever present, and they shall also elect another member to be Vice-Chairman, to preside in the absence of the Chairman: Provided that, if it should be urgently necessary to call a special meeting of the Council in the unavoidable absence of both the Chairman and the Vice-Chairman it shall be lawful for the members present at the special meeting so called to elect one of their number to be Chairman *pro hac vice*, and to transact business at such special meeting under his authority. The Registrar shall summon such last-mentioned special meeting at the

request of not less than three members of the Council, but all other meetings of the Council shall be summoned by him at the direction and under the authority of the Chairman or in his absence the Vice-Chairman respectively. Provided always that all meetings of the Council the Chairman of the Rhodes University College, or other the Chairman of that meeting, shall be entitled to vote upon any matter before the Council, and that in the case of an equality of votes he shall have a casting vote in addition to his ordinary vote.

10. At the first meeting annually of the first and all future Councils the members shall elect a Treasurer of the Rhodes University College, and if the person so elected should cease to be a member of the Council he shall *ipso facto* vacate his office, and a new Treasurer shall forthwith be appointed.

Election of  
Treasurer.

11. The Council shall have power to appoint, upon such terms and with such instructions as they shall think fit, an official who shall be styled "Registrar of the Rhodes University College." He shall act as Secretary of the said Council, and be charged with such other duties as the Council may assign to him, and they may also appoint upon the same conditions all such other officers as they may deem necessary.

Appoint-  
ment of a  
Registrar  
or Secre-  
tary.

12. Upon the death or resignation of any member of the Council or whenever any member shall *ipso facto* vacate his seat by absenting himself from four consecutive ordinary meetings, without leave from the

Vacancies  
in Council,  
how caused  
and filled.

Council first obtained, or by assigning his estate for the benefit of his creditors or becoming insolvent, or by being incapacitated for business owing to mental or bodily infirmity, the Registrar shall without delay notify the fact of such vacancy having occurred to the nominator or nominators of such member, who shall thereupon within twenty-eight days of the receipt of such notice proceed to nominate his successor, or if the vacancy is in the case of an elected member of Council the said Registrar shall notify the vacancy to the Chairman, who shall proceed to the election of a successor as provided in section six of this Act, and the person so nominated or elected as successor shall hold office during the unexpired portion of the term of the member whom he succeeds.

Powers of  
Council.

13. The Rhodes University College Council shall have power to buy and sell and to take and give transfer or delivery of all property, movable or immovable, vested in or belonging to them at any time by virtue of this Act, and to grant or take leases and to pledge and mortgage all property so vested in them as aforesaid, and generally to act as owners and administrators thereof in trust for the said Rhodes University College: Provided that no immovable property so vested in the said Council by grant from the Government or from the Municipality of Grahamstown shall be sold or mortgaged without the consent of the Governor or of the said Municipality respectively

first had and obtained : Provided further that the said Council shall be entitled and empowered to borrow from the Government such sums of money as the Governor may consent to lend under the provisions of the Local Works Loans Act, 1882, or any other Law which may be in force regulating loans to public or corporate bodies or educational institutions.

14. All powers of Attorney to pass transfer or to mortgage any property belonging or which may belong to the said Rhodes University College Council and all contracts, leases and documents of a like nature shall be signed and executed by the Chairman of the Council and Registrar for the time being.

How deeds  
to be exe-  
cuted.

15. The Council shall provide all the necessary buildings, apartments, equipments, furniture and other requisites for the said College and the departments connected therewith ; and shall administer the grants of money received from the Public Revenue for educational purposes in accordance with the regulations laid down by law and by Resolutions of both Houses of Parliament with regard to such grants.

Duties of  
Council.

16. The Council shall have the right and duty of appointing and dismissing the Professors, Lecturers or Teachers, in the said College, but any Professor, Lecturer or Teacher shall, on dismissal, have the right of appeal to the head of department directing the Public Education of the Colony for the time being : and the said Council shall also regulate and fix the

Govern-  
ment aid.

Appoint-  
ment and  
dismissal of  
Professors,  
&c.

fees to be paid by the students and scholars and the appropriation thereof.

Appoint-  
ment of  
Senate  
and its  
powers.

17. One of the members of the Council nominated thereto annually by the Council shall, together with the Professors of the College, form the Senate, of whom five shall form a quorum, and in which shall be vested the superintendence and regulation of the instruction of the several departments and classes and the discipline of the College in accordance with a scheme and regulations to be framed and passed for that purpose by the said Senate and approved by the Council.

Chairman  
of Senate.

18. The said Senate shall annually, in the month of February, elect one of their number to be Chairman, who shall hold office for one year, and in the event of his vacating his office during the said period, the said Senate shall forthwith elect another of their number to serve during the remainder of the said year. The Chairman shall, when present, preside at meetings of the said Senate, and when he is absent from any meeting, the members of the said Senate present at such meeting shall elect one of their number to act as Chairman *pro hac vice*. The Chairman may vote on any subject under discussion, and at any meeting at which the votes of the members are equal on any matter, he shall have a casting vote in addition to his ordinary vote.

Senate  
may frame  
rules.

19. The Senate may from time to time frame, alter,

or amend rules for regulating the holding and the proceedings of its meetings, and for the due discharge of its duties, and such rules shall come into force when approved by the Council.

20. The Rhodes University College Council shall cause true and correct records of all its proceedings, and true and correct accounts of all monies received and paid on behalf and for account of the College and the departments connected therewith, and shall, in the month of March in every year, transmit to the Government for the information of Parliament, a statement of revenue and expenditure during the preceding calendar year, and a general report of the state and affairs of the College and the departments connected therewith, and shall cause a copy thereof and of the financial statement to be published once in each of the local papers and in the *Gazette*.

Minutes,  
accounts,  
financial  
statement  
and annual  
report.

21. All actions and other proceedings at law to be instituted by or against the Rhodes University College shall be so instituted by or against the Chairman and Registrar for the time being.

Legal re-  
presenta-  
tion.

22. If anything, prescribed to be done by this Act within any particular time, shall not have been done within such time, it shall be lawful for His Excellency the Governor to authorise the doing of the same at any time thereafter.

23. This Act may be cited for all purposes as "The Rhodes University College Act, 1904."

# Rhodes University College Council.

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## RULES OF ORDER.

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### MEETINGS.

1. The ordinary meetings of the Council shall be held at the College, on the third Friday in each month, at 4. P.M.

2. The ordinary meeting held in the month of August shall be the Annual Meeting referred to in Sections 9 and 10 of Act No. 21 of 1904, and at such meeting the Council shall, in addition to electing a Chairman, Vice-Chairman, and Treasurer, nominate one of its members to be a member of the Senate, and shall appoint an Auditor or Auditors for the ensuing year.

3. At any special meeting of the Council only such business shall be transacted as is mentioned in the notice convening the same.

4. At ordinary meetings of the Council the business shall, unless it is resolved to the contrary, be taken in the following order :—

Confirmation of Minutes.

Matters arising out of the Minutes.

Reports of Committees.



Correspondence.

Motions of which notice has been given.

Other Motions, and Notices of Motion.

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### COMMITTEES.

5. Notice shall be given of all motions having reference to the regulations at the meeting previous to that at which they are dealt with, and each member of the Council shall be warned of the terms thereof not less than one week before such meeting.

6. There shall be three standing Committees, viz. :—the Buildings Committee, the Finance Committee, and the Internal Arrangements Committee.

7. Each Committee shall consist (in addition to the Chairman of the Council, *ex officio*) of seven members, who shall be elected at the Annual Meeting in August each year ; the Treasurer shall, however, always be one of such members of the Finance Committee ; three members to form a quorum.

8 In the event of a vacancy arising in any Committee the Council shall, at its next meeting but one, elect another member to fill the same.

9. Each Committee shall, at the first meeting after the election, choose one of its members to be its Chairman.



10. The Buildings Committee shall advise the Council on all matters connected with the fixed property of the College, and shall have control, under the Council, of the buildings and grounds of the College.

11. The Finance Committee shall advise the Council in all financial matters, and examine all accounts submitted for payment.

12. The Internal Arrangements Committee shall advise the Council in regard to the appointment of Professors and other officials, and concerning all internal arrangements of the College which are not specially under the control of the Senate.

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#### REGISTRAR AND TREASURER.

13. The Registrar, in addition to acting as Secretary to the Council, shall perform the same duties in regard to its Committees, and shall render such assistance to the Senate as shall be required by the Council. He shall further keep in a safe in his office such registers as shall be necessary, together with proper account books ; he shall collect all money which may become due to the College, and make such payments as may be authorised by the Council, prepare all returns and statements that may be required, and generally transact the business of the College in accordance with the directions of the Council ; in

regard to financial matters he shall be under the supervision of the Treasurer. He shall give approved security for his fidelity to the extent of £1,000.

14. All money received on account of the College shall be deposited with its bankers as speedily as may be, and the Registrar shall take care that he has not at any time as much as £20 in his possession at the close of the day.

15. Cheques on the bankers of the College shall be signed by the Treasurer, and countersigned by one member of the Council or by the Registrar and countersigned by two members of the Council.

16. The Treasurer shall, at the regular meetings in January, April, July and October, present to the Council a short statement of receipts and expenditure during the previous quarter, also a statement of Capital Account.

17. The books and accounts of the College shall be audited every six months, viz :—For the half-year ending 30th June and 31st December, and at such other times as the Council may direct.

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# THE SENATE.

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## **Regulations Affecting the Proceedings of the Senate.**

1. Act of Incorporation, No. 21 of 1904, Section 17 :—One of the members of the Council nominated thereto annually by the Council, shall, together with the Professors of the College, form the Senate, of whom five shall form a quorum, and in which shall be vested the superintendence and regulation of the instruction of the several departments and classes, and the discipline of the College, in accordance with a scheme and regulations to be framed and passed for that purpose by the said Senate and approved by the Council.

2. Act of Incorporation, Section 18 :—The said Senate shall annually, in the month of February, elect one of its number to be Chairman, who shall hold office for one year, and in the event of his vacating his office during the said period, the said Senate shall forthwith elect another of its number to serve during the remainder of the said year. The Chairman shall, when present, preside at all meetings of the said Senate, and, when he is absent from any meeting, the members of the said Senate present at such meeting shall elect one of their number to act as Chairman

*pro hac vice*. The Chairman may vote on any subject under discussion, and at any meeting at which the votes of the members are equal on any matter he shall have a casting vote in addition to his ordinary vote.

3. Act of Incorporation, Section 19:—The Senate may from time to time, frame, alter, or amend rules regulating the holding and the proceedings of its meetings, and for the due discharge of its duties, and such rules shall come into force when approved by the Council.

4. The Senate shall meet on the Wednesday preceding each second Friday during Term.

5. Special meetings may be held at the request, conveyed in writing to the Chairman or Secretary, of any two members, but two clear days' notice of such meetings must be given. A special meeting may also be summoned at any time at the direction of the Chairman.

6. At such special meetings no business shall be transacted not arising out of the agenda proposed by the conveners.

7. The Annual Electoral Meeting shall be held in the month of February, on the day before the First Term of the year begins, or in case of such day being Sunday the meeting shall take place on the preceding Saturday.

8. At the Annual Electoral Meeting, or as otherwise determined, the Senate shall appoint a Secretary of Senate to hold office for the Academic Year, and such Secretary may be the Registrar.

9. Minutes of all proceedings of the Senate shall be kept by the Secretary.

10. At the last ordinary meeting of the Academic Year the Chairman shall present an annual report on the work of the year, to be discussed and, if necessary, amended by the Senate, and such report when approved shall be presented to the Council.

11. A Register shall be kept of all students of the College, in which the Registrar shall enter in the case of each student such particulars as have been decided upon by the Senate, and each student's signature in this Register shall be accepted as a token of submission to the rules laid down by the Senate.

12. Each Professor or Lecturer shall keep, in the books provided for that purpose, a record of the attendance of his classes.

13. The Chairman of the Senate shall have power to grant leave of absence to members of the Staff in cases of absolute emergency, provided always that in all cases a detailed report of reasons be furnished, through the Registrar, to the Council before its next meeting. The Chairman of the Council or, in his absence the Vice-Chairman of the Council, may, upon

the recommendation of the Chairman of the Senate, grant leave of absence from Grahamstown for any period of more than two days duration, which leave of absence, together with the reason thereof, shall be reported to the Council at its meeting next coming.

14. A record of each student's attendance, progress and conduct during the term, signed by the Chairman, shall be forwarded to the parents or guardians of each student at the end of each term.

15. The Senate shall appoint an Editor or Editors of the College Calendar and College Magazine, to hold office for the Academic Year.

16. The Time-Table for the work of the College Classes shall be finally decided upon by the Senate.

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## RULES FOR STUDENTS.

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1. All Students are subject to the control of any member of the Senate, so far as their general conduct is concerned, and they are required to abstain, whether on the College premises or not, from all conduct tending to bring discredit on the Institution.

2. The Senate has authority to suspend, expel, or otherwise deal with Students guilty of misconduct, provided that in all cases of expulsion the Senate shall report the fact to the Council without delay.

3. Any damage done to the property of the College by any Student shall be made good by such Student.

4. No Magazine or Newspaper shall be promoted by the Students of the College without the consent of the Senate.

5. Men Students enter the Main Building of the College only by the door on the right, and Women Students only by that on the left of the central entrance of the Main Building.

6. No smoking will be allowed within the College precincts, except in the Junior Common Room.

7. All Students of the College are required to wear Academic Dress while attending lectures, and at all public functions of the College.

8. Regular attendance at the Lectures of the course entered upon is compulsory. In case of unavoidable absence, each Student must, as soon as possible, communicate the cause of such absence to the Professors whose lectures have been missed.

9. No Student is entitled to enter any department of the College until his fees for the current term have been paid.

10. Students not residing with relatives must satisfy the Senate that they are residing at homes approved by their parents or guardians, unless they are resident at the Hostels or boarding-houses recommended by the Senate.

11. In the case of a Student who has been suffering from contagious or infectious illness, a medical certificate must be furnished to the Secretary of Senate to the effect that the Student may return to College without risk of infection to others. In the case of such illness occurring in the house in which the Student resides, a similar certificate must be furnished.

12. Any breach of the foregoing rules to which no penalty is assigned, or any violation of discipline not provided for in these Rules, will be dealt with at the discretion of the Senate.

13. The College shall have the first claim upon its Students in all College matches, provided



that the practice of inviting representatives from the local Schools to join in arranging fixtures be continued.

14. Every Student on joining the College shall sign the College Register, and the Student's signature in that Register shall be a token of submission to the discipline of the College authorities.

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## **RULES FOR JUNIOR COMMON ROOM.**

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1. The Junior Common Room shall be open daily except Sundays to all students of the College from 8.30 a.m. to sundown, and to male students up to 10 p.m.

2. The Junior Common Room shall be available for all meetings of the College Societies, at stated times, of which at least 48 hours' notice shall be given to the Hon. Sec. of the Committee. The Common Room, however, shall not be occupied in this manner for more than three nights in the week.

3. No rowdiness, ragging, or disturbances shall be allowed in the Junior Common Room, and the Committee shall have power to suspend from Common Room privileges any student guilty of violating this provision.

4. No singing or music shall be permitted in the Junior Common Room during lecture hours.

5. The Committee shall delegate two of its male members each week by rotation, whose names shall be duly posted, to see that the rules are observed and order maintained, and that the room shall be available for such College Societies as have bespoken its use.

6. The Committee shall be responsible to the Senate and Council for the safe-keeping of the furniture and fittings, and shall have power to collect their value from any person damaging the same.

7. A book shall be kept for the purpose of entering the names of visitors.

8. The Room during the vacations shall be at the disposal of the Chairman of the Senate for use in the interests of the College.

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## TUTORIAL SYSTEM.

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A tutorial system has been in operation in the College for the past two years. Each Student, as soon as possible after entrance, is placed under the charge of some member of the Staff, whose duty it is to look after the interests and welfare of such Student. The Tutor will give special guidance and help in connexion with the University Courses, and will at all times be ready and willing to act *in loco parentis*.

## BOARD OF STUDIES.

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Students must, on admission to the College, present themselves to the Board of Studies, the duty of which is to decide upon the particular courses of study which Students are to pursue.

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## BOARDING ACCOMMODATION.

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### THE HOSTELS.

The Councils of the local denominational Colleges and Schools provide accommodation for the Rhodes College Students in apartments separate from their own pupils under conditions, which, while not overlooking the status of the Students as undergraduates of the University, supply the moral and religious influences desired by the parents and guardians of many Students. Fifty pounds per annum is the average fee charged at the Hostels. Further particulars are obtainable on application to the Registrar.

The following Hostels have been recognized by the Council :—

St. George's Hostel (Anglican).

St. Aidan's College Hostel (under the Jesuit Fathers).

Kingswood College Hostel (Wesleyan).

Diocesan School for Girls Hostel (Anglican).  
Wesleyan High School Hostel (Wesleyan).

**APPROVED BOARDING HOUSES.**

The following Boarding Houses have been inspected and approved by the Senate :—

Mrs. A. Benn, African Street.  
Miss A. Burt, Henry Street.  
Miss C. Busscher, Somerset Street.  
Miss Clough, High Street.  
Mrs. Courtnage, New Street.  
Mrs. De Maine, Somerset Street.  
Mrs. Douglas, "The Haven," West Hill.  
Mrs. A. Duffield, New Street.  
Mrs. C. Evans, Somerset Street.  
Mrs. J. W. Fraser, Somerset Street.  
Mrs. Harvey, Milner Street.  
Mrs. Hayler, Bathurst Street.  
Miss Perkins, Drostdy.  
Mrs. G. Reynolds, Beaufort Street.  
Miss Richards, Hill Street.  
Mrs. Rudd, Somerset Street.  
Mrs. van Heijst, Oatlands Road.  
Mrs. A. C. Warr, Beaufort Street.  
Mrs. C. M. Webber, Beaufort Street.

# COLLEGE COUNCIL.

1909.

*Chairman* :—The Hon. Mr. Justice KOTZE, LL.B., K.C.

*Vice-Chairman* :—F. G. C. GRAHAM, Civil Commissioner and Resident Magistrate, Albany.

J. BRUCE-BAYS, M.D.

H. LARDNER-BURKE, K.C. (Solicitor-General).

The Right Rev. Bishop C. E. CORNISH.

L. B. DOLD, J.P.

H. FITCHAT, J.P., M.L.A.

E. G. GANE, M.A.

The Hon. Mr. Justice GRAHAM, LL.B.

T. H. GROCOTT, J.P.

A. S. HUTTON, J.P.

Rev. Father JINKS, S.J.

Rev. P. W. H. KETTLEWELL, M.A.

D. KNIGHT, J.P.

D. NEILSON, M.A.

Rev. J. ROBB.

J. SLATER, B.A.

H. R. WOOD, J.P.

*Treasurer* :—H. FITCHAT, J.P., M.L.A.

*Registrar* :—The Rev. A. W. BRERETON.

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*Janitor* :—P. G. O'BRIEN.

# THE SENATE.

1909.

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The PROFESSORS, and the Rev. P. W. H. KETTLEWELL  
(elected by the Council).

*Chairman* :—Professor A. S. KIDD.

*Secretary* :—Rev. A. W. BRERETON.

## STAFF.

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*Latin with Classical Literature and Philology.*

Professor :—R. M. EXHAM, B.A. (Dublin), M.A. (Cape), LL.B. (Cape); late Classical Scholar and Moderator, Trinity College, Dublin.

*Greek and English.*

Professor :—A. S. KIDD, M.A. (Victoria and Cambridge); late Open Exhibitioner of St. John's College, Cambridge; formerly Lecturer in Classics in University College, Sheffield; M.A., University of the Cape of Good Hope.

Lecturer in Classics :—C. W. BOWLES, M.A. (Cambridge); M.A., University of the Cape of Good Hope.

*Modern Languages (Dutch, French, German).*

Professor :—G. F. DINGEMANS, M.A. (Edinburgh); First Class Honoursman, Bruce and Falkland Scholar, Gold Medallist.

Lecturer :—P. van Braam, Litt. D., Utrecht ;  
formerly Lecturer in German, Iowa, U.S.A.

*Philosophy and History.*

Professor :—A. R. Lord, M.A. (Oxon.) ; late Scholar  
of Balliol College, Oxford ; late Lecturer in  
Politics and Assistant Professor of Moral Philo-  
sophy in the University of Aberdeen.

*Pure Mathematics.*

Professor :—A. Matthews, M.A. (Cambridge) ; late  
Scholar and Open Exhibitioner of Sidney Sussex  
College, Cambridge ; M.A., University of the  
Cape of Good Hope.

Lecturer :—D. Williams, B.Sc. (London and Cape).

*Physics and Applied Mathematics.*

Professor :—Alexander Ogg, M.A. (Aberdeen), B.Sc.  
(Aberdeen), Ph.D. (Göttingen) ; late Lecturer  
in Physics and Applied Mathematics at the  
Royal Naval Engineering College, Devonport ;  
formerly Assistant Professor of Physics in the  
University of Aberdeen.

Lecturer :—R. W. Varder, B.A. (Cape).

*Chemistry and Metallurgy.*

Professor :—G. E. Cory, M.A., King's College (Cam-  
bridge) ; F.C.S. ; late Demonstrator of Chemistry  
in the University of Cambridge ; M.A. of Dur-  
ham and University of the Cape of Good Hope.

*Botany.*

Professor :—S. Schönland, Ph.D. (Kiel); Hon. M.A. (Oxon.).

*Geology.*

Professor :—E. H. L. Schwarz, A.R.C.S. (London); F.G.S.; formerly Geologist to the Geological Commission of the Colony of the Cape of Good Hope.

*Zoology.*

Professor :—J. E. Duerden, M.Sc. (Cape), A.R.C.S. (London), Ph.D. (Johns Hopkins); Bruce Fellow, Johns Hopkins University; late Assistant Professor of Zoology in the University of Michigan, U.S.A.; formerly Demonstrator in Biology and Palæontology at the Royal College of Science, Dublin.

*Law.*

Professor :—W. A. Macfadyen, M.A. (Oxon.), LL.D. (Cape); late Scholar of Brasenose College, Oxford; formerly Lecturer in the Staats Gymnasium, S. African Republic.

*Drawing.*

Instructor :—F. W. Armstrong, A.R.C.A. (London); Art Master of the Grahamstown School of Art; late Art Master of the Sutherland School Board and Instructor of Art Classes under the Durham County Council.



# REPORT OF THE Rhodes University College Council

For the Year ended 31st December, 1908.

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*Presented to both Houses of Parliament by Command of  
His Excellency the Governor, 1909.*

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## THE COLLEGE COUNCIL.

The Grahamstown Training College having contributed to the Funds of the College in terms of the Rhodes University College Act, Section 5, nominated as its first representative of the Council, the Hon. Mr. Justice Graham.

At the Annual Election held in July, the six members who retired by effluxion of time were all re-elected ; Mr. A. S. Hutton by the subscribers, and the others by the Educational Institutions set set against their names : Mr. E. G. Gane (Kingswood College) ; the Rev. Father Jinks (St. Aidan's College) ; The Right Rev. the Lord Bishop of Grahamstown (Diocesan School for Girls) ; Mr. Henry Wood (Grahamstown Municipal Council) ; Mr. Henry Fitchat, M.L.A. (Albany Divisional Council). In

September the Rev. J. Martin Dower was elected by the Grahamstown Municipal School Board in succession to Mr. J. Hards, a foundation member, who resigned. At the Annual Electoral Meeting held in July, the Hon. Mr. Justice Kotzé and Mr. F. C. Graham were for the fourth time elected respectively Chairman and Vice-Chairman, Mr. H. Fitchat, M.L.A., was again appointed Treasurer, and the Rev. Dr. Macgowan for the second time was chosen as the Council's representative on the Senate, which office he vacated in the September following, the Rev. J. Martin Dower being elected to take his place.

The Council desires to place on record its appreciation of Dr. Macgowan's active membership on the Council since the inception of the College.

During the year the equipment of the laboratories has been further developed to meet the requirements of the University Syllabusses, and to the Library has been added a considerable number of carefully selected volumes, making a total of 5,564, which are now shelved in a more commodious room in the Main Building.

To Mr. Otto Beit the Council owes grateful thanks for his gift of a bust of his brother, the late Mr. Alfred Beit, our munificent benefactor, which the Rt. Hon. Dr. Jameson has kindly consented to unveil at an early date.

The Council records with satisfaction the acquisition of the Drostdy Site from the Imperial Government, the late Parliament having by a resolution of both Houses of the Legislature abandoned the Colonial Government's right of pre-emption.

### THE SENATE.

At the Electoral Meeting held in February, Prof. Macfadyen was re-elected Chairman of Senate and the Rev. A. W. Brereton, Secretary. Prof. Exham was appointed in June to the Chair of Latin and Classical Literature with Philology in succession to Prof. R. J. Cholmely, and the Council towards the close of the year, owing to the steady increase in the number of students, found it necessary to strengthen the Department of Classics by establishing a lectureship, to which an appointment will be made at an early date. The Staff now consists of:—

R. M. Exham, B.A. (Dublin), M.A. (Cape), LL.B. (Cape), Professor of Latin with Classical Literature and Philology ; A. S. Kidd, M.A. (Victoria and Cambridge), Professor of Greek and English ; G. F. Dingemans, M.A. (Edinburgh), Professor of Modern Languages ; P. van Braam, Litt. D. (Utrecht), Lecturer in Modern Languages ; A. R. Lord, B.A. (Oxon.), Professor of Philosophy and History ; A. Matthews, M.A. (Cambridge), Professor of Pure Mathematics ; D. Williams, B.Sc. (London), Lecturer

in Pure Mathematics ; Alexander Ogg, M.A. (Aberdeen), Ph.D. (Göttingen), Professor of Physics and Applied Mathematics ; D. Parry, B.Sc. (London and Wales), Lecturer in Physics and Applied Mathematics ; G. E. Cory, M.A. (Cambridge), F.C.S., Professor of Chemistry and Metallurgy ; S. Schönland, Ph.D. (Kiel). Hon. M.A. (Oxon.), Professor of Botany ; E. H. L. Schwarz, A.R.C.S. (London), F.G.S., Professor of Geology ; J. E. Duerden, M.Sc. (Cape), A.R.C.S. (London), Ph. D. (Johns Hopkins), Professor of Zoology ; W. A. Macfadyen, M.A. (Oxon.), LL.D. (Cape), Professor of Law ; F. W. Armstrong, A.R.C.A. (London), Instructor of Drawing.

In addition to those prescribed by the University, series of lectures have been given by Prof. Schwarz, on modern theories on the Origin of the Globe ; by Prof. Macfadyen on Federation, and by Prof. Dingemans and Dr. van Braam to Grahamstown teachers desirous of learning Dutch. During the Winter Vacation twelve courses in Agriculture were given at the College by members or the Staff, assisted by various officers of the Agricultural Department, and by others engaged in practical farming.

### THE STUDENTS.

The aggregate number of students attending the College during the year was 116, distributed thus :—

1st Term .....	103
2nd Term.....	105
3rd Term.....	108
4th Term.....	109

The Examination results were as follows :—

Intermediate Examination.—27 passed, 3 in the 1st Class (4th, 6th and 8th places), 9 in Class II, and 15 in Class III. B.A.—11 passed, 7 in Literature and 4 in Science, 5 in Honours, in Classics 2 (2nd and 3rd places), 1 in Mental and Moral Philosophy (2nd place), 2 in Physics (1st and 2nd places). M.A.—First Part, 1. LL.B.—Preliminary, 1. LL.B.—Final, 1. Survey, theoretical.—1 in Part I; 7 in Part II (1st place, 6th place (2 bracketed), 8th, 9th (2 bracketed) and 11th). These successes are a source of great satisfaction not only to the Senate and to the students to whom the credit is due, but also to the Council, and to all who are interested in the progress of the College.

### FINANCE.

For the past two years the limit number of Matriculated students, namely, 75, which entitles the College to the higher grants made to other University Colleges in accordance with the regulations under the Higher Education Act has been exceeded. The

Council trusts that this fact and the success which the College has achieved will be recognised by the Government.

J. G. KOTZE,

Chairman of the Council.

A. W. BRERETON,

Registrar.

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## ADMISSION OF STUDENTS.

The most suitable time for entering the College is in February, in which month the Academic Year begins. Students may, however, be admitted on application at any time during the year.

The Matriculation Examination of the University is the usual standard for admission to the regular courses, but non-matriculated students desiring to enter upon special courses of study will also be admitted on producing satisfactory evidence of their ability to profit by the lectures which they desire to attend.

Applications for admission should be addressed to—

THE REGISTRAR,

Rhodes University College,

Grahamstown.

Parents or students desiring advice on strictly educational matters should, however, apply to the Chairman of Senate or the Professors specially concerned through the Registrar.

The First Term of the Academic Year, 1910, begins on Friday, 11th February.

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## FEES OF STUDENTS.

GENERAL UNIVERSITY COURSES..	£5	5s.	per Term.
SPECIAL LAW COURSES	..	£2 10s.	„
SPECIAL SUBJECTS ...	... £1	1s.	„

For Laboratory Charges for Students taking Chemistry see Chemistry Syllabus.

All fees are to be paid in advance.

Every Student is required to pay a quarterly subscription of 5s. to the Athletic Union Fund. Bursary and Scholarship holders pay £1 at the beginning of the Academic Year instead of quarterly.

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## RAILWAY CONCESSION TICKETS.

Railway certificates, entitling students of the College to travel under certain condition at half-fare on the Cape Government Railways, can be obtained from the Registrar. Students entering the College for the first time should apply in advance to the Registrar for such certificate.

# Scholarship and Bursary Scheme for 1910.

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## REGULATIONS.

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1. All Bursaries shall be awarded on the following conditions laid down by the College Council :—

(a) The past examination record of each applicant shall be taken into consideration.

(b) The necessities of each case shall be taken into consideration, with a view to helping promising scholars whose means for pursuing a University course are limited.

2. Students holding Intermediate Bursaries and Scholarships are expected to read for an Honours Degree.

3. All holders of Bursaries and Scholarships shall undertake to present themselves in due course for the examination to which the Scholarship or Bursary has reference.

4. Applications for Bursaries and Scholarships should reach the Registrar not later than 5th



February, 1910. Candidates are, however, strongly advised to enter their names provisionally by December 10th, 1909.

**(1). Fifteen Entrance Bursaries of £21, for 1 year,** to be awarded on the results of the Matriculation or Intermediate Examination.

Not less than six of these Bursaries are to be assigned to first or second class matriculants from subscribing Schools.

**(2). BEIT SCHOLARSHIPS,**

**(a). One Scholarship of £30 and one Scholarship of £40,**

tenable for 1 year, to be awarded on the results of Matriculation Examination. The holders of these Scholarships must read for the Intermediate Examination next ensuing.

**(b). Two Scholarships of £40, for 2 years,**

to be awarded on the results of the Intermediate Examination ; by preference one of these Scholarships shall be awarded to a candidate for B.A. Literature, the other to a candidate for B.A. Science.

**(3). Teachers' Bursaries.**

Teachers entering the College under the Regulations suggested by the recent Parliamentary Committee on the Training of Teachers shall be

awarded an annual Bursary of £21. Each of these bursaries is supplemented by a Maintenance Grant of £60 per annum from the Department of Education.

#### **(4). Municipal Scholarships.**

To each town where a Municipal Scholarship of not less than £21 per annum has been established, the College shall assign a Bursary of £21, tenable at the College by the holder of the Municipal Scholarship, subject to satisfactory progress being made.

[Bursaries have already been established by the following Municipalities :—Port Elizabeth, Kingwilliamstown, Queenstown, Kimberley and Uitenhage.]

#### **(5). Port Elizabeth School Board Scholarships.**

Three Scholarships, each of the annual value of £40, tenable for three years. Application for these Scholarships should be made to the Secretary of Port Elizabeth School Board. One of these Scholarships is awarded each year.

**(6). Port Elizabeth Merchants' Scholarship of £40,** tenable for three years, to be awarded to a Port Elizabeth scholar on the results of the Matriculation Examination.

#### **(7). Bursaries from contributing Schools and Colleges.**

The Councils of Schools and Colleges contributing to the funds of the Rhodes University College are

empowered to offer Entrance Bursaries of the value of £21 each to students from their own schools, up to the amount of their annual contributions.

**(8). Students holding Entrance Bursaries**

may obtain a renewal of the same for two years in the event of their passing the Intermediate Examination in the first or second class, provided further that their work throughout the year has been satisfactory to the Senate.

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**DEFERRED PAYMENT OF FEES.**

In view of the fact that it is desirable to enable students in necessitous circumstances to continue their University Studies, and further in view of the fact that at present it is not desirable to increase the present number of Bursaries, it has been decided by the Council of the Rhodes University College to institute a system of Deferred Payment of Fees on lines similar to those in force in certain German Universities.

Students who have not been successful in obtaining a Bursary and who cannot continue their studies without financial assistance may have the payment of their College fees deferred by the Council on the recommendation of the Senate under the following conditions :—

1. Every application for such deferred payment must be accompanied by a written statement from the Applicant, or, in the case of a minor, from Applicant's parent or guardian, of his financial circumstances, such statement to be certified as substantially correct by a person holding a responsible position such as a Civil Commissioner or a Minister of Religion.

2. A legal agreement must be entered into by Applicant, or, in the case of a minor, by Applicant's parent or guardian, with the authorities of the R.U.C. for payment of the fees within a period of six years from the date of completion of Applicant's studies at the College.

3. Payment may be made in instalments, but if after the lapse of six years the full amount has not been paid it shall be the duty of the Registrar of the Rhodes University College to inform the Council of the College, who shall issue instructions as to the steps to be taken to recover the fees.

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# University Scholarships, Exhibitions and Prizes open to Students of the Rhodes University College.

## I.—SCHOLARSHIPS.

1. The following Scholarships may be awarded at the Examination for the degree of Bachelor of Arts :—

Number of Scholarships.	Scholarships.	Value.	Period of Tenure.
Open . . . .	{ 3 Porter	£150	Three Years
	{ 1 Ebden	£200	„
	{ 1 George Grey	£150	„
	{ 6 Queen Victoria	£150	„
	{ University	£60	„
Restricted . .	{ 1 Hiddingh	£200	Four Years
	{ 1 Maynard	£60	Three Years

2. The Scholarships will be open for competition as set forth in the following table :—

Year.	Open Scholarships.					Restricted Scholarships.	
1909	P	E	...	2 V	U	...	M
1910	P	...	...	2 V	U	...	...
1911	P	...	G	2 V	2U	...	...
1912	P	E	...	2 V	...	H	M

P., Porter; E., Ebden; G., George Grey; U., University; V., Queen Victoria; H., Hiddingh; M., Maynard.

For further particulars see University Calendar.

## II.—INTERMEDIATE EXHIBITIONS.

A number of exhibitions may be awarded annually in connection with the Intermediate Examination under the following regulations :—

1. The number of exhibitions available, will be in proportion to the number of candidates who have passed the examination.

2. The exhibitions shall be of two classes, Major and Minor, of the value of £40 and £30 respectively.

3. The exhibitions will be tenable for two years.

4. No candidate shall be eligible for an exhibition unless :—

(a) Either (1) his parents or guardians are domiciled in Cape Colony or in a Colony or State, which makes an annual contribution to the funds of the University under the 8th Section of Act 6 of 1896, or in accordance with the regulations framed under the provisions of Act 9 of 1875 ;

or (2) he has prosecuted his studies during the two years preceding the examination in Cape Colony or in such contributing Colony or State.

- (b) He obtains a place in the first class.
- (c) He has passed the Matriculation Examination of this University.
- (d) He is under 20 years of age on the first day of July preceding the examination.

5. Subject to the above restrictions, the candidates will be placed upon the exhibition list in the order of the aggregate of their marks.

6. The holder of each exhibition must, during the tenure thereof, continue his studies in Cape Colony or in some contributing Colony or State, and at some institution approved by the University Council, with a view to graduating in this University.

7. The payment of each exhibition will be made in half-yearly instalments on the 30th of June and the 31st of December, subject to proof being furnished by the holder, to the satisfaction of the Vice-Chancellor, that the conditions of tenure are being complied with.

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### III.—QUEEN VICTORIA MEMORIAL SCHOLARSHIP FOR GIRLS.

(Founded by the Women of South Africa for Girl Students only.)

1. The Scholarship will be of the value of £200 per annum, and will be tenable for three years.

2. No candidate will be eligible for the Scholarship unless :—

(a) her parents have been domiciled in South Africa for not less than two years immediately prior to the qualifying examination ;

(b) she is under 20 years of age on the first day of July preceding the said examination ;

The next competition in this Scholarship will take place in 1910. For further particulars see University Calendar.

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#### IV. THE CHALMERS MEMORIAL PRIZE.

(Founded by subscription in memory of the late Rev. John Aikin Chalmers, of Trinity Church, Grahamstown.)

1. This prize of the value of about £20, may be awarded annually to the author of the best Essay on some subject selected by the Council.

For fuller particulars see University Calendar.

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#### V.—THE J. B. EBDEN PRIZE.

This prize, of the value of £50, may be awarded every five years, or at such intervals as the Council may from time to time appoint, to the author of the best original Essay on some subject selected by the Council, bearing on Banking, Currency and Finance in relation to the improvement of the material wealth,



social welfare, and to the development of the commercial and agricultural resources of the Colony.

For further particulars see University Calendar.

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## VI.—THE CORNWALL AND YORK PRIZE.

(Founded by the Capetown Citizens' Committee for the reception of T.R.H. the Duke and Duchess of Cornwall and York, 1901.)

This prize, of the value of £50, may be awarded biennially to the author of the best Thesis or Dissertation dealing with any subject connected with the Mathematical, Physical, or Natural Sciences, these terms being used in their widest acceptation.

For further particulars see University Calendar.

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# University Courses at the Rhodes University College.

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## I.—INTERMEDIATE EXAMINATION.

### SUBJECTS OF EXAMINATION.

- (a) English. (Two papers.)
- (b) *One* of the following :
  - (1) Latin. (2) Mathematics. (Two Papers.)
- (c) *One* of the following :
  - (1) Dutch. (2) French. (3) German.
- (d) *One* of the following :
  - (1) Applied Mathematics. (4) Botany.
  - (2) Physics. (5) Zoology.
  - (3) Chemistry. (6) Geology.
- (e) At least *one* and not more than *two* of the following :
  - (1) History. (8) Applied Mathematics \*
  - (2) Greek. (9) Physics.\*
  - (3) Latin.\* (10) Chemistry.\*
  - (4) Mathematics.\* (11) Botany.\*
  - (5) Dutch.\* (12) Zoology.\*
  - (6) French.\* (13) Geology.\*
  - (7) German.\*

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\* If not already taken under group (b) (c) or (d), as the case may be.

## II.—BACHELOR OF ARTS EXAMINATION.

## DEPARTMENT OF LITERATURE AND PHILOSOPHY.

## PASS EXAMINATION.

At the Pass B.A. Examination 1910 the subjects will be as follows :—

(a) Latin ; (b) Greek ; (c) Logic and Psychology ; and any *two* of the following three :—

(d) English ; (e) a second modern language (Dutch, French or German) ; (f) History.

## HONOURS EXAMINATION.

Candidates for Honours in the Department of Literature and Philosophy will be examined in one, but not more than one, of the four following groups of subjects, in addition to the subjects required for the Pass Examination.

*Group I.—Classics.*

Latin and Greek, including Philology.

*Group II.—Modern Languages.*

Any three of these four languages.	{	English,	{	with the Philology
		Dutch,		of any two of the
		French		three Languages
		German,		selected.

*Group III.—Mental and Moral Science.**Group IV.—History.*

N.B.—Candidates who select History for thier Honours Examination must take History as one of the subjects for their Pass Examination. Candidates who select Modern Languages for their Honours Examination cannot take History as a subject for their Pass Examination.

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### III.—BACHELOR OF ARTS EXAMINATION.

#### DEPARTMENT OF SCIENCE.

##### PASS EXAMINATION.

The subjects for the Pass Examination in the Department of science are any *three* of these eight subjects :—

- |  |                |
|--|----------------|
| (1) Mathematics.                               | (4) Chemistry. |
| (2) Applied Mathematics.                       | (5) Geology.   |
| (3) Physics.                                   | (6) Botany.    |
| (7) Zoology (including Comparative Anatomy).   |                |
| (8) Biology ( <i>i.e.</i> Botany and Zoology). |                |

[With the proviso that (2) cannot be taken without (1) ; and that neither (6) nor (7) can be taken with (8).]

##### HONOURS EXAMINATION.

Candidates for Honours in the department of Science will be examined in one of the following subjects, in addition to the subjects required for the Pass Examination.

- |                          |              |
|--------------------------|--------------|
| (1) Mathematics.         | (5) Geology. |
| (2) Applied Mathematics. | (6) Botany.  |
| (3) Physics.             | (7) Zoology. |
| (4) Chemistry.           |              |

[N.B.—The candidate must take as one of the subjects in the Pass Examination the subject which he selects for Honours.]

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#### IV.—B.A. PASS EXAMINATION.

##### EXAMINATIONS IN DEPARTMENT OF LITERATURE AND SCIENCE COMBINED.

1. In and after 1910 candidates for the Pass degree of B.A. will be allowed to present themselves for examination in one of the *three* following departments :—

I. Literature and Philosophy.

II. Science.

III. Literature and Science combined.

2. Candidates entering for examination in Department III, may take *either* of the two following courses, provide that every candidate (both in Course A. and Course B.) must take as one of his subjects either Greek *or* Logic and Psychology *or* Mathematics:

Course A. (Four subjects in the department of Literature and Philosophy and one subject in the department of Science.)

I. Latin *or* Greek.

II. English *or* Dutch *or* French *or* German.

III. History *or* Logic and Psychology.

IV. One of the following subjects :

(1) Mathematics. (2) Physics. (3) Chemistry.

(4) Geology. (5) Botany.

(6) Zoology (including Comparative Anatomy).

V. One of the subjects under I., II., or III. not already taken.

Course B. (Two subjects in the department of Literature and Philosophy and two subjects in the department of Science.)

I. Two of the following subjects (provided that no two subjects taken from the same group) :

(1) Latin. (2) Greek. (3) English *or* Dutch.

(4) History *or* Logic and Psychology. (5) French.

(6) German.

II. Two of the following subjects :

(1) Mathematics. (2) Applied Mathematics.

(3) Physics. (4) Chemistry. (5) Geology.

(6) Botany. (7) Zoology.

N.B.—In each of the above subjects in Department III. the syllabus and the papers set will be the same as for the Pass Examination in the corresponding subject in Departments I. and II.

## V.—MASTER OF ARTS EXAMINATION.

## NEW REGULATIONS.

1. No Candidate will be admitted to the M.A. examination unless he has previously obtained or been admitted to the degree of B.A.

2. A candidate for the degree of M.A. will be examined in any of the six following departments which he may select, viz. :—

1. Classics.
2. Modern Languages.
3. Mental and Moral Science.
4. History.
5. Mathematical Science.
7. Physical and Natural Science.

3. The examination for the degree of M.A. will consist of two parts, Part I. to be the examination for the honours B.A. degree in the subject or group of subjects selected by the candidate for the M.A. examination, Part II. to consist of an examination as specified below.

4. No candidate will be admitted to Part II. of the examination until after the expiration of one academic year from the time of his passing Part I.

5. The minimum for a pass in Part I. shall be the minimum marks required in honours. Candidates who have obtained this minimum at their B.A.

examination will be excused Part I. of the examination for the M.A. degree.

6. A portion of the examination in Part II. may be conducted orally should the examiners deem it expedient to do so, *the examiners to decide in each case where such oral examination shall be held.*

For further particulars see the University Calendar.

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## VI.—EXAMINATION IN THE THEORY OF LAND-SURVEYING.

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

PART I.—(1) Algebra.

(2) Geometry.

(3) Plain 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.

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## VII.—FIRST MINING EXAMINATION.

Under the new Regulations for the Mining Course the first two years' work is purely scientific. Mining Students, therefore, can be prepared at this College in all branches of the first half of their Professional Course.

For the subjects for this Examination and full Syllabus, see University Calendar.

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## VIII.—PRELIMINARY MEDICAL COURSE.

The Universities of Edinburgh, Glasgow and Aberdeen, have recognised the Professors of Physics, Chemistry, Botany and Zoology as Extra-mural Lecturers.

Students intending to proceed to the Scottish Universities to study Medicine may, therefore, take the first year of their Medical Course at the Rhodes University College.

- \*IX.—Law Certificate Examination.
- \*X.—Preliminary LL.B. Examination.
- \*XI.—Final LL.B. Examination.
- \*XII.—Doctor of Laws Examination.
- \*XIII.—Civil Service (Lower) Law Examination.
- \*XIV.—Civil Service (Higher) Law Examination.
- \*XV.—Civil Service LL.B. Examination.
- \*XVI.—Transvaal Civil Service (Lower) Law Examination.
- \*XVII.—Transvaal Civil Service (Higher) Law Examination.
- \*XVIII.—Orange River Colony Law Certificate Examination.
- \*XIX.—Orange River Colony Civil Service (Lower) Law Examination.
- \*XX.—Natal Law Certificate Examination.
- \*XXI.—Natal Advocates' Preliminary Examination.
- \*XXII.—Natal Advocates' Final Examination.

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\*For the subjects of these Examinations, for which students may prepare at this College, see below.

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# Prospectus of 1910.

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## Latin with Classical Literature and Philology.

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PROFESSOR :

R. M. EXHAM, B.A. (*Dublin*), M.A. (*Cape*), LL.B.  
(*Cape*). (Late Classical Scholar and Moderator.  
Trinity College, Dublin).

### I.—INTERMEDIATE EXAMINATION.

Special Books.

Pliny. *Letters, Book VI.*

Vergil. *Aeneid, Book I.*

Editions of these works will be procurable at  
Grocott & Sherry, High Street, Grahamstown.

Students must provide themselves with Latin  
Dictionary and Latin Grammar—Roby's Latin Gram-  
mar for Schools is recommended—and with G. G.  
Bradley's Latin Prose Composition.

### II.—B.A. EXAMINATION.

Books for 1910.

Pass B.A.

Cicero. *Tusculan Disputations, Book II.*

Livy. *Book XXIV.*

Horace. *Odes, Book IV.*

Terence. *Andria.*

## Honours B.A.

Tacitus. *Annals*, Book XIV.

Lucretius. *De Rerum Natura*, Book V.

Students must provide themselves with texts or annotated editions of these works, and with the following :—

Mommsen's Abridged History of Rome, or Shuckburgh's History of Rome. History of Roman Literature, Crutwell.

Honours students should procure Giles' Manual of Comparative Philology.

**B.A. PASS EXAMINATION, 1911.**

LATIN.—(A) University Calendar, pp. 136--7, Paragraph 6 to be deleted and the following to be substituted therefor :

*First Paper*.—(Three hours) :

- (a) Passages for Translation from works prescribed for detailed study (see Calendar, 1910--11).
- (b) Questions on these works dealing with points of grammatical, literary or historical interest.

*Second Paper*.—(Three hours) :

- (a) Passages for Translation from works prescribed for less detailed study (see Calendar, 1910--1911).
- (b) Passages for unprepared translation.

*Third Paper.*—(Three hours):

- (a) English passages for translation into Latin.
- (b) Questions on Roman Literature, with special reference to Plautus, Terence, Lucretius, Catullus, Vergil, Horace, Ovid, Juvenal, Cæsar, Cicero, Livy and Tacitus.
- (c) Questions on Roman History (see Calendar 1910--11).
- (B) Calendar, p. 140 : the works in Latin to be allotted as follows :—

		Maximum.	Minimum required.
First Paper.	{ Section A.	100	} 120
	{ Section B.	100	
Second Paper.	{ Section A.	80	
	{ Section B.	120	
Third Paper.	{ Section A.	80	
	{ Section B.	60	
	{ Section C.	60	

## The Greek Language.

PROFESSOR.

A. S. KIDD, M.A. (*Victoria and Cambridge*).

LECTURER :

C. W. BOWLES, M.A. (*Cambridge*).

### I.—CLASS FOR BEGINNERS.

This class has been instituted to meet the requirements of those students who wish to graduate in Literature and have not taken Greek at School.

## II.—INTERMEDIATE COURSE.

The books prescribed for the University Examination of 1910 are :

Lysias—*In Alcibiadem*, I.

Plato—*Apology*.

The course also includes exercises in Grammar and Composition and in Unseen Translation.

## III.—JUNIOR B.A. COURSE.

The students in this class will be prepared for the B.A. Examination of 1911. In addition to the reading of the prescribed books there will also be read a selection from various Greek authors with a view to giving students a wider knowledge of Greek Literature.

The work of the class also includes Composition and Grammar.

## IV.—SENIOR B.A. COURSE.

Euripides—*Alcestis*.

Thucydides—*Book IV*.

Plato—*Meno*.

There will also be a course of Composition and Unseen Translation.

## V.—JUNIOR HONOURS COURSE IN GREEK, 1911.

This class is intended for those taking Classical Honours in 1911.

**VI.—SENIOR HONOURS COURSE IN GREEK.**

In this class the prescribed books of 1910 will be read, viz. :

Longinus—*On the Sublime*.

Aristophanes—*Birds*.

Owing to the fact that Archaeology is an important subject in the Honours Syllabus for 1910 a course of Lectures will be given in Classical Archaeology, illustrated by means of the lantern slides and photographs, of which the College has a very large selection.

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**English Language and Literature.**

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PROFESSOR :

A. S. KIDD, M.A. (*Victoria and Cambridge*).

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**I.—INTERMEDIATE COURSE, 1910.**

Special Books :

(1) History of the Language :

Henry Sweet.—*Primer of Historical Grammar*.

[Candidates are recommended to study lines 1 to 308 of Chaucer's *Prologue* in illustration of the History of the Language.]

(2) History of English Literature, with special reference to Chaucer, Spenser, Shakespeare, Bacon, Milton, Dryden, Pope, Addison, Wordsworth, Scott, Byron, Shelley, Keats, Tennyson. (Stopford Brooke's *Primer of English Literature* will indicate the general range of the examination.)

(3) Special Texts :

Palgrave—*Golden Treasury* (First Series), Book II.

R. L. Stevenson—*Memories and Portraits*.

## II.—B.A. COURSE, 1910.

*Pass Examination.*

(1) Texts :

Shakespeare. — *Love's Labour's Lost*,  
*Henry IV.*, (*Parts 1 & 2*), *Romeo*  
*and Juliet*, *Othello*, *A Winter's*  
*Tale*.

Marlowe.—*Edward II.*

Milton. — *Ode on Christ's Nativity*,  
*L'Allegro*, *Il Penseroso*, *Lycidas*.

Wordsworth.—(*Golden Treasury Edition*), *Narrative Poems*, *Lyrical Poems*, *Sonnets* 3, 6, 8, 9, 19, 20, 23, 28, *Ode on Intimations of Immortality*.

Coleridge.—*Biographia Literaria*, Chapters 1, 3, 4, 14-22.



English Essays [Ed J. H. Lobban,  
Blackie], The Essays of Johnson,  
Goldsmith, Hazlitt and Lamb.

(2) General Period of Literature. 1579-1750.

### III. HONOURS EXAMINATION.

First Paper, Part II.

The English Drama from Gorboduc to the death  
of Marlowe, with special reference to Manly's  
*Pre-Shakesperian Drama*. Vol. II. (Ginn).  
Or History of English Literature from 1830 to  
1900, with a special knowledge of the follow-  
ing works :

Tennyson :—*Poems of 1842*.

Browning :—*Men and Women*.

Carlyle :—*Heroes and Hero Worship*.

Meredith :—*Ordeal of Richard Feverel*.

Arnold :—*Selected Poems* (Golden  
Treasury).

Second Paper, Part I :

The Works of Keats, with special reference to  
the Poems of 1820.

Second Paper, Part II :

Cook :—*First Book in Anglo-Saxon*  
(Ginn).

Sweet :—*Second Middle English Primer*  
(Clarendon Press).

Wyld :—*Historical Study of the Mother  
Tongue* (Murray).

For the use of Students of English there has been placed in the English Department of the Library a large collection of books belonging to the General Periods prescribed for the various examinations, in addition to various Encyclopædias of Literature (such as that edited by Garnett and Gosse), which are copiously illustrated. It is also intended to make the study of English Literature as interesting and instructive as possible by reference to such photographs of architecture, scenery, &c., as may aid in the appreciation of such Literature.

#### IV.—JUNIOR B.A. COURSE, 1911.

##### *Pass Examination.*

Period of Literature :—1832 to 1892.

Shakespeare : — *Midsummer Night's Dream, Richard III, Twelfth Night, Hamlet, Antony and Cleopatra, Cymbeline.*

English Odes :—Ed. Marsh (Bell).

Dryden:—*All for Love, Essay on Dramatic Poetry.*

Burke:—*Speeches on America.*

#### V.—HONOURS B.A. COURSE, 1911.

##### *First Paper.*

##### *Either :*

The English Drama from Gorboduc to the death of Marlowe, with special reference to the plays of Marlowe.

*Or :*

The History of English Literature from 1830 to 1900, with a special knowledge of the following works :—

Tennyson.—*In Memoriam*.

Browning.—*Paracelsus*.

George Eliot.—*Silas Marner*.

Froude.—*Selections* (Longmans').

Swinburne.—*Atalanta in Calydon*.

*Second Paper, Part I.*

The works of Keats, with special reference to *Endymion*.

*Second Paper, Part II.*

Language : as for 1910.

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## Philosophy.

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PROFESSOR :

A. R. LORD, M.A. (*Oxon.*).

(Late Lecturer on Politics and Assistant Professor of Moral Philosophy in the University of Aberdeen, N.B. ; formerly Scholar of Balliol College, Oxford.)

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Section 1.—For those students who do not seek Honours in the examination for the degree of B.A. there are two courses for each of the alternative philosophical subjects. They are taken in successive years.

## A. LOGIC AND PSYCHOLOGY.

- (a) *Junior B.A. Class.*—The lectures deal with (i) the scope and objects of Philosophy ; (ii) the rudiments of Formal Logic, Deduction and Induction ; (iii) the rudiments of Psychology.
- (b) *Senior B.A. Class.*—The lectures deal with the criticism of Formal Logic, the essential elements in the Logic of Knowledge and with Psychology. The prescribed portion of Lotze's Logic is also discussed

In both classes periodical papers are set.

The following books are recommended :

- (a) (i) Watson's *Outline of Philosophy*, chapter 1.  
       \*Royce's *The World and the Individual*.  
       First Series, Lecture I.
- (ii) Mellone's *Introductory Text Book of Logic*.
- (iii) Angell's *Psychology*.  
       Mellone and Drummond's *Elements of Psychology*.
- (b) In addition to the foregoing :
- (i) & (ii) Lotze's *Logic*.
- (iii) Stout's *Manual of Psychology*.  
       \*Royce's *Outlines of Psychology*.

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\*These books might be read during the intervening summer vacation.

## B. ETHICS AND POLITICS.

- (a) *Junior B.A. Class.*—The lectures deal with  
 (i) the scope and objects of Moral Philosophy ; (ii) the rudiments of Ethics, the Psychology of the Moral Self and the moral analysis of social life ; (iii) the discussion of the prescribed texts.
- (b) *Senior B.A. Class.*—The lectures deal with the principles of Political Obligation and the most prominent historical theories of Politics. The prescribed texts are also discussed. In both classes periodical papers are set.

The following books are recommended.

- (a) (i) & (ii) Muirhead's *Elements of Ethics*.  
           Bosanquet's *Psychology of the Moral Self*.
- (ii) Aristotle's *Ethics I—III* (trans. F. H. Peters).  
           Muirhead's *Chapters from Aristotle's Ethics*.
- (b) In addition to the foregoing :  
           Aristotle's *Politics I—III* (trans. B. Jowett ed. H. W. C. Davis).  
           Seeley's *Introduction to Political Science*.

Pollock's *History of the Science of Politics*.

\*Jenks' *History of Politics* (Temple Primers).

Students are also recommended to read *either* Bosanquets' *Philosophical Theory of the State* or Green's *Lectures on the Principles of Political Obligation*.

Section 2.—Those students who seek Honours in Philosophy in the B.A. Examination are required, in addition to covering the field of knowledge represented by Section 1A, to study the following subjects :

- (i) Ethics and the Principles of Politics.
- (ii) A subject in some period of Ancient Philosophy.
- (iii) A subject in some period of Modern Philosophy.

With each of the two latter subjects a text is prescribed ; and they are to be studied in reference to the General History of Philosophy. Fuller knowledge of the subjects of the Pass Examination is also required.

The subjects prescribed 1910 to 1912 are :

- (ii) Greek Ethics from Socrates to Aristotle, with special reference to the *Republic* of Plato, which is prescribed as the text.

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\*This work should be studied in the intervening summer vacation.

- (iii) The Theory of Knowledge in the period from Descartes to Kant, with a special study of the selections from the *Critique of Pure Reason* in Watson's Selections from Kant (pp. 1-222.)

Courses of Lectures will be given upon these subjects.

The following books will be required by Honours Students in Philosophy, in addition to those mentioned above :

Bosanquet's *Essentials of Logic*.

James' *Textbook of Psychology*.

Roger's *Students' History of Philosophy*.

Mackenzie's *Manual of Ethics*.

Plato's *Republic*, translated by Davies and Vaughan, or by A. D. Lindsay.

Bosanquet's *Companion to Plato's Republic*.

Watson's *Selections from Kant*.

The following are also recommended for reference:

F. H. Bradley : *The Principles of Logic*.

W. James: *The Principles of Psychology*.

J. E. Erdmann: *History of Philosophy*.

T. H. Green: *Prolegomena to Ethics*.

H. Sidgwick: *The Methods of Ethics*.

H. Sidgwick : *The Elements of Politics*.

R. L. Nettleship : *Lectures on Plato's Republic*.

E. Caird : *The Critical Philosophy of Immanuel Kant*.

Intending candidates for the M.A. Examination in the Department of Mental and Moral Philosophy are requested to communicate with the Professor without delay, in order that arrangements may be made for the necessary additional courses.

The Class Library, in course of preparation, already contains most of the works necessary for a sufficient study of these subjects. In addition to this, the following periodical publications are taken in for the use of Students of Philosophy and History.—“Mind,” “The Philosophical Review,” “The International Journal of Ethics,” “The American Journal of Psychology,” “The Hibbert Journal,” “The Political Science Quarterly,” “The English Historical Review,” “The American Historical Review,” “The Journal of Theological Studies.”

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## History.

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PROFESSOR :

A. R. LORD, M.A. (*Oxon.*).

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### I.—INTERMEDIATE.

Candidates for the Intermediate Examination will study the General History of Europe 800-1517. A.D.

Members of this class must provide themselves with Thatcher and Schwill's *General History of Europe*, Part I. only.



The following books are recommended for reference :

*The Dark Ages*, 476-918 (C. W. C. Oman).

*The Empire and the Papacy*, 918-1273 (T. F. Tout).

*The Close of the Middle Ages*, 1273-1494 (R. Lodge).

*The Holy Roman Empire* (J. Bryce),

## II.—B.A. PASS.

Candidates for this examination will study the following subjects :

(i) *First Paper*. The Political History of England 1603-1815. Each member of the class should provide himself with the following text books :

S. R. Gardiner : *The Puritan Revolution*, 1603-1660. — *Epochs of Modern History*.

E. Hale : *The fall of the Stuarts*. *Epochs of Modern History*.

J. F. Bright : *History of England. Constitutional Monarchy* 1689-1837.

Students are also recommended to read at least part of Gardiner's, Macaulay's and Lecky's Histories.

(ii) *Second Paper*. The Constitutional History of England 1603-1867. Each member of the class should provide himself with the following text books :

F. C. Montague's *Elements of English Constitutional History*.

Adams and Stephens' *Select Documents of English Constitutional History*.

The following documents (numbered as in Adams & Stephens) are prescribed for the examination:—188, Act against Monopolies ; 189, Petition of Right ; 204, Grand Remonstrance and the King's reply, 205 ; 210, Act erecting a High Court of Justice for the trial of Charles I. ; 219, Instrument of Government ; 222, Act abolishing relics of Feudalism and fixing an Excise ; 223, Corporation Act ; 224, First Act of Uniformity ; 225, Conventicle Act ; 226, Five Mile Act ; 228, Test Act ; 231, Habeas Corpus Act ; 238, Toleration Act ; 239, Bill of Rights ; 243, Act of Settlement ; 244, Act of Union with Scotland ; 247, Septennial Act ; 251,2,3, Decisions on General Warrants and in *Sommersett's Case* ; 258, Act of Union with Ireland ; 261, Repeal of Corporation and Test Acts ; 262 Catholic Emancipation Act ; 263, Reform Act, 1832 ; 266, Abolition of Negro Slavery, 1833.

Students are also recommended to study Hallam's *Constitutional History*, chs. VI—XVI ; and Sir T. Erskine May's *Constitutional History of England, 1760-1861*.

(iii) *Third Paper*. South African History, Political and Constitutional, to 1881 A.D.

Sir C. P. Lucas' *Historical Geography of the British Colonies, Vol. IV., Part I*, is recommended.

### III. B.A. HONOURS AND M.A.

Candidates for Honours in History will be required to study the following subjects in addition to the Pass subjects, in which a higher standard of attainment is proposed ;

(i) Some special period of European History. In 1910 : The Renaissance and Reformation. In 1911-2: The period from 1648 to 1713 A.D.

(ii) The general history of the self governing British Colonies.

(iii) Colonization, Ancient and Modern together with Colonial Federal Constitutions, as exemplified in the United States of America, the Dominion of Canada and the Commonwealth of Australia.

The Professor will recommend literature on these subjects from time to time in the class.

All students should provide themselves with copies of the following works.

Sir G. C. Lewis' *Essay on the Government of Dependencies* (edited by Sir C. P. Lucas, 1891).

Sir J. R. Seeley's *Expansion of England*.  
Sir Charles Dilke's *Problems of Greater Britain*.

H. E. Egerton's *Origin and growth of the English Colonies*.

P. Leroy-Beaulien's *De la Colonisation chez les peuples modernes*.

N.B.—Honours Candidates are required to study *all* the relevant documents of English Constitutional History in Adams and Stephens.

Intending Candidates for the M.A. Examination in the Department of History are requested to communicate with the Professor without delay, in order that arrangements may be made for the necessary additional courses.

#### ECONOMICS AND ECONOMIC HISTORY.

In and after the year 1911 candidates may offer themselves for examination in Economics and Economic History as an alternative subject in the B.A. Literature Pass Examination. Those who intend to avail themselves of this option are requested to communicate with the Professor of Philosophy and History without delay, in order that arrangements may be made for their instruction.

The following books will be required :

Gide's *Principles of Political Economy*  
(trans. Veditz).

Marshall's *Economics of Industry*.

Cunningham's *Essay on Western Civilisation in its Economic Aspects*.  
(Mediæval and Modern Times).

Jenks' *History of Politics* (Temple Primers).

Note:—At the present time it is not possible to offer Economics as an Honours Subject in the B.A. Examination. It can however be taken as an optional subject in the M.A. degree in Philosophy.

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## Modern Languages.

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### DUTCH AND FRENCH.

PROFESSOR :

G. F. DINGEMANS, M.A. (*Edin.*)

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### DUTCH AND GERMAN.

LECTURER :

P. VAN BRAAM, Litt. D. (*Utrecht*).

Formerly Lecturer in German at Iowa College, U.S.A.

*Intermediate Class* :—

Reading, Conversation, Composition, Grammar.

*Tutorial Classes* :

Tutorial Classes in Dutch and German are held for students who wish to read for Honours, but have as yet studied only one Modern Language. These Classes may be attended by any student.

*Junior B.A. Class :—*

Study of prescribed works.

Outlines of Political and Literary History.

Composition.

*Senior B.A. Class :—*

Study of the books and the period of literature prescribed. Reading of selected passages from standard authors.

Outlines of the History of the Language.

Composition.

*B.A. Honours Class :—*

Study of prescribed works.

Exercises in original composition.

Philology.

*Taalbond Examinations :—*

Students are prepared for the Highest Taalbond Examinations.

A class for teachers desirous of learning Dutch is held once a week.

Graduates and teachers who wish to continue their studies in Modern Languages will be given assistance and every facility.

If desired, special courses will be provided for those who are reading for the M.A. degree in Modern Languages.

The departmental library contains standard authors, historical, critical and philological works, and is extensively added to from year to year.

The following journals are taken in :—

*Tijdschrift voor Nederlandsche Taal-en Letterkunde.*

*Zeitschrift für französische Sprache und Litteratur.*

*Litteraturblatt für romanische und germanische  
Philologie.*

*Die Neueren Sprachen.*

There is also a collection of photographs, illustrative of scenery, historical cities, etc., in Holland, France and Germany.

#### B.A. EXAMINATION FOR 1910.

For Syllabus, see University Calendar.

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### Pure Mathematics.

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PROFESSOR :

ARTHUR MATTHEWS, M.A. (*Cantab.*).

(Late Scholar and Open Exhibitioner of Sidney Sussex College, Cambridge ; M.A. University of Cape of Good Hope.)

ASSISTANT LECTURER :

D. WILLIAMS, B.Sc. (*London and Cape*).

(Formerly 1851 Exhibition Scholar of the University College of North Wales. Cape Government Land Surveyor.)

Lectures will be given on the mathematical subjects comprised in the syllabuses for the various examinations as specified in the Calendar of the of the University of the Cape of Good of Good Hope.

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## Physics and Applied Mathematics.

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PROFESSOR :

ALEXANDER OGG, M.A., B.Sc. (*Aberdeen*);  
Ph.D. (*Göttingen*).

LECTURER AND DEMONSTRATOR :

R. W. VARDER, B.A.

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The Courses in Physics and Applied Mathematics are arranged to suit students preparing for the Intermediate, Survey, Mining and B.A. Science Examinations of the University of the Cape of Good Hope. Students attending the medical courses take Intermediate Physics, and, in addition, an elementary course in Electricity.

All students attending the various classes go through practical courses in the Laboratories which have been fully equipped for the purpose.



The ordinary courses are :

**PHYSICS.**

- (1) Intermediate, Survey, Junior Mining and Medical Physics.
- (2) Senior Mining, Senior Survey and Junior B.A. Physics.
- (3) Senior B.A. and Honours B.A. Physics.

**APPLIED MATHEMATICS.**

- (1) Intermediate and First Mining Dynamics.
- (3) Second Mining and Junior B.A. Applied Mathematics.
- (3) Senior and Honours B.A. Applied Mathematics.

The syllabuses of the above courses will be found in the Calendar (1909-1910) of the University of the Cape of Good Hope.

**PHYSICS :**

- (a) Intermediate Examination, Page 119, §17.
- (b) B.A. Pass Examination, Page 158, §24.
- (c) B. A. Honours Examination, Page 176 §35.
- (d) First Mining Examination, Page 250, §6.
- (e) Second Mining Examination, Page 266, §6.
- (f) Survey Examination, Page 222, §11.

**APPLIED MATHEMATICS.**

- (a) Intermediate Dynamics, Page 116, §16.
  - (b) B.A. Pass Examination, Page 157, §23.
  - (c) B.A. Honours Examination, Page 174 §34.
  - (d) First Mining Examination, Page 249, §5.
  - (e) Second Mining Examination, Page 265, §5.
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**Chemistry and Metallurgy.**

PROFESSOR :

GEO. E. CORY, M.A., F.C.S. (*King's Coll., Cambridge*).  
(Late Demonstrator of Chemistry in the University of  
Cambridge.)

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The work of this department comprises that involved in the preparation for the following examinations of the Cape University.

- (1) The Intermediate in Chemistry.
- (2) The Science B.A. (both Pass and Honours).
- (3) The First Mining Examination.

Also—

(4) Instruction for Medical Students in preparation for the Preliminary Scientific Examinations.

(5) Training in the methods of technical analysis,  
—e.g., the analysis of substances in connection

with the Foods and Drugs Act—the object of which is to enable those students, who have finished the usual Academical Course, to gain such experience in the analysis of breads, waters, milks, etc., as shall enable them eventually to take up the profession of an analytical chemist under this Government or elsewhere.

(6) Original research.

Adequate accommodation and equipment is to be found in the laboratory for carrying out efficiently the above branches of work.

In consequence of the necessary consumption of chemicals and the unavoidable breakage of glasses, etc., by students, a small extra charge must be made to cover this loss. All students, therefore, on joining the laboratory for the first time, must provide themselves with a set of apparatus, for which a charge of 13/6 will be made (this amount being somewhat under the cost price of the articles in London). There will also be a charge of 5/- per term for the use of the chemicals, etc., of the laboratory.

**INTERMEDIATE EXAMINATION.**

*Written Examination :*

The constitution of matter ; atoms and molecules. Fundamental chemical laws. Principal methods of ascertaining the volumetric composition of gaseous compounds.

Methods of determining equivalent weights and atomic weights. Molecular weights of gases. Electrolysis and elementary notions of the ionic theory of solutions. General laws of gases. Dissociation. Allotropy. Transition point. Stable and metastable conditions. Solutions of gases and solids in water.

Mass relations and classification of the elements. Elementary notions of mass action, reversible reactions, chemical equilibrium. Exothermic and endothermic reactions.

Combustion, structure of flame. Oxidation and reduction. Classification of oxides. Nature of acids, bases and salts, structural formulae and compound radicals. Chemical equations and calculations relating to weight and volume. Calculations of percentage composition and empirical formulae.

The chief sources, preparations and properties of the elements and their more common compounds, in particular: oxygen, hydrogen, water, hydrogen peroxide, ozone, nitrogen, atmospheric air, compounds of nitrogen and oxygen, nitric acid, nitrous acid, ammonia and ammonium compounds, the halogens and their hydrogen compounds, hypochlorites and chlorates, sulphur, sulphurous oxide and acid, sulphuric oxide and acid, sulphuretted hydrogen, carbon disulphide, boracic acid, silica, silicon fluoride, phosphorus, gaseous phosphoretted hydrogen, phosphorus

and phosphoric oxides, phosphorous trichloride and pentachloride, phosphoric acids.

A general knowledge of the chief sources and properties of the following elements and their more common compounds : potassium, sodium, magnesium, calcium, strontium, barium, zinc, manganese, chromium, iron, aluminium, cobalt, nickel, silver, copper, bismuth, lead, cadmium, mercury, arsenic, antimony, tin, gold, platinum.

*Practical Examination.* [The time allowed for the examination is 6 hours.]

Candidates will be expected to undertake the following work :—

(1) Qualitative analysis of three simple salts soluble in water or in acids involving recognition of the following ions in solution : nitrate, nitrite, chloride, bromide, iodide, fluoride, sulphide, sulphate, sulphite, carbonate, borate, orthophosphate, silver, lead, mercurous, mercuric, bismuth, copper, cadmium, arsenious, antimony, stannous, stannic, aluminium, chromium, ferrous, ferric, zinc, manganese nickel, cobalt, barium, strontium, calcium, magnesium, ammonium, sodium, potassium.

(2) In addition to the above, either simple preparations of chemical substances, or “simple” metric estimations, such as the determination of the loss on

heating various substances, *e.g.*,  $\text{KClO}_3$ ,  $\text{NaHCO}_3$ ,  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ , etc., the determination or equivalents of such elements as are soluble in dilute acids or such as are easily oxidised by heating in air or by other oxidising agents, may be set by the examiner. Full details for the execution of these experiments will be stated in the paper set. The questions which will be set in this portion of the paper will involve experimental manipulation of such a character as the student may be expected to have performed in an ordinary course of practical chemistry preparatory for this examination.

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### B.A (SCIENCE) PASS EXAMINATION.

#### *Written Examination.*

This examination will consist of two papers, each of three hours' duration. The first will consist of questions relating chiefly to inorganic chemistry, and the second of questions relating chiefly to organic chemistry.

*The Principles of Chemistry*, including the following :—

General methods of determining atomic and molecular weights. Choice of a standard for atomic weights. Use of the polarimeter. The periodic system of classification. Elementary notions of the kinetic theory. Deviations from the simple laws of gases.

Liquefaction of gases. The phase rule and its simple applications. Properties of solutions. Osmotic pressure and Van't Hoff's deductions for dilute solutions. The elements of thermal chemistry and photochemistry. Electrolytic dissociation. Velocity of ions. Molecular conductivity. Explanations of chemical change by the ionic theory; active mass, velocity of chemical action, balanced actions, solubility product. Spectrum analysis. Emission and absorption spectra. The crystallographic systems. Holohedral and hemihedral crystals. Dimorphism and isomorphism. Stereoisomerism.

*Inorganic Chemistry :*

(a) The subjects given in the syllabus of the Intermediate Examination will be treated more fully, and in addition the following: Argon, helium. Hydroxylamine, hydrazine. Oxides and oxyacids of chlorine, bromine, and iodine, and their salts. Nitrogen chloride and iodide. Hydrogen persulphide, sulphuryl chloride, sodium, thiosulphate, selenium and tellurium, their oxyacids and their principal compounds with hydrogen and oxygen. Carbonyl chloride, carbonyl sulphide, hydrocyanic acid and its derivatives simple and complex. Boron and its oxide, nitride, fluoride and chloride. Boric and fluoroboric acids. Silicon and its hydride and chloride. Hydrofluosilicic acid. Silicates, glass, enamels, porcelain,

carborundum. Compounds of phosphorus with hydrogen, chlorine and iodine.

(b) Common oxides, hydroxides, nitrides, carbides, halides, oxychlorides and oxysalts of the common elements and preparation of potassium, sodium, magnesium, calcium, zinc, manganese, chromium, iron, aluminium, cobalt, nickel, silver, copper, lead, cadmium, mercury, arsenic, antimony, bismuth, tin, gold, and platinum.

(c) The outlines of the technical preparation of the following : soda, lime, bleaching powder, alum, portland cement, mortar, carbon dioxide, coal gas and ammonia, water gas, producer gas, white lead, nitrates from air, nitric acid, phosphorus and matches, arsenious oxide, oxygen, sulphur dioxide, sulphuric acid, chlorine, hydrochloric acid, bromine, iodine.

(d) The principles of chemical analysis involved in the syllabus of the Practical Examinations.

### *Organic Chemistry.*

Distinction between organic and inorganic chemistry ; peculiarities of carbon compounds : saturated and unsaturated compounds ; homologous series ; compound radicles. Purification of organic compounds ; melting-point and boiling-point determinations ; crystallisation and fractional distillation ; qualitative detection of carbon, nitrogen, hydrogen, sulphur, phosphorus, and the halogens ; quantitative



analysis of organic compounds ; determination of the molecular weight of organic compounds. Empirical, molecular, rational and graphic formulæ ; isomerism, metamerism and polymerism. Classification of carbon compounds ; distinction between aliphatic and aromatic compounds. General properties, general modes of formation and constitution of the following series of compounds, with special reference to those compounds mentioned under each series.

*Aliphatic Compounds :*

*Hydrocarbons :* (a) paraffins ; methane, ethane, propane, butane, pentane, hexane, petroleum and paraffin industry, solid paraffins. (b) Olefines : ethylene. (c) Acetylenes : acetylene.

*Halogen derivatives* of the above hydrocarbons.

*Alcohols (monohydric, saturated)* methyl, ethyl ; vinous fermentation ; alcoholometry ; determination of ethyl alcohol in wines and beers ; propyl, butyl, amyl alcohols, fusel oil.

*Alcohols (monohydric, unsaturated)*, allyl alcohol.

*Ethers*: di-methyl, di-ethyl, mixed.

*Thio-alcohols and thio-ethers* : mercaptan ; ethyl, sulphide.

*Esters* of alcohols with nitric acid, nitrous acid (true esters and isomeric nitro-derivatives), sulphuric

acid, derivatives with hydrocyanic acid (nitriles and iso-nitriles).

*Amines.*

*Organo-metallic compounds*: zinc methyl, zinc ethyl.

*Aldehydes and ketones*: formaldehyde, acetaldehyde, paraldehyde, metaldehyde, choral, acrolein, acetone.

*Fatty acids*: formic, acetic, acetous fermentation, propionic, butyric, valeric, palmitic, stearic acids. Fats and oils.

*Unsaturated fatty acids*: acrylic, oleic acids.

*Acid chlorides, anhydrides, thio-acids, amides.*

*Polyhydric alcohols*: glycol, glycerine (nitroglycerine), erythrol, arabite, mannite.

*Carbohydrates*: glucose, fructose, cane sugar, maltose, cellulose (gun-cotton), starch.

*Oxidation products of the polyhydric alcohols.*

*Hydroxy acids*: glycollic acid, glycoll, lactic acids (Le Bel and Van't Hoff's theory; asymmetric carbon atom), lactic fermentation.

*Dibasic acids*: oxalic, malonic, succinic acids.

*Unsaturated dibasic acids*: maleic and fumaric acids.

*Hydroxy-dibasic acids*: malic and tartaric acids and their isomerism.

*Tri basic acids*: Citric acid.

*Cyanogen compounds:* cyanogen compounds and hydrocyanic acid, cyanides, ferro- and ferri-cyanides, cyanogen chloride, cyanic acid and cyanuric acid, thio-cyanic acid and derivatives.

*Carbonic acid derivatives:* esters of carbonic acid, chlorides (phosgene), amides (carbamic acid), urea, thio-derivatives (carbonyl sulphide).

*Aromatic Compounds :*

*Hydrocarbons :* benzene, toluene, xylenes, mesitylene.

*Halogen substitution products :* chloro-benzenes, chlorotoluenes, benzyl-chloride, benzal chloride.

*Nitro-derivatives :* nitrobenzene, meta-dinitrobenzene, nitrotoluenes.

*Amido derivatives :* aniline, diphenylamine, toluidines, benzylamine. The diazo reaction and its simple applications.

*Sulphonic acids :* benzene-sulphonic acid, sulphanic acid.

*Phenols:* phenol, trinitro-phenol, homologues of phenol.

*Alcohols and aldehydes :* benzyl alcohol, benzaldehyde.

*Acids and derivatives :* benzoic acid, benzoyl chloride, hippuric, amido-benzoic and cinnamic acids.

*Naphthalene and derivatives :* naphthalene, naphthylamines, naphthols.

*Anthracene derivatives*: anthracene, anthraquinone, alizarine.

*History of Chemistry.*

From Robert Boyle to the present day, including : phlogiston theory (Stahl); antiphlogiston theory (Lavoisier); atomic theory (Dalton) and its development (Berzelius); theory of types and radicles; theory of Van 't Hoff and Le Bel.

*Practical Examination.* (Three days.)

1. *Qualitative analysis* of mixtures of salts, soluble in water or acids, containing not more than six ions when in solution of those given in the Intermediate syllabus, including separation of two kat-ions of the same group.

Detection of carbon, hydrogen, nitrogen, sulphur, phosphorous, chlorine in organic substances.

2. *Inorganic preparations*: Preparation of a pure substance for the elements or from one of its compounds.

3. *Organic preparations*: preparation of one simple organic substance such as chloroform. iodoform, ethyl, iodide, ethyl acetate, ethylether, ethylene, bromine, aldehyde ammonia, glycol, formic acid, allyl, alcohol, nitro-cellulose, nitrobenzene, aniline, oxalic acid, acetanilide, etc.

4. *Gravimetric analysis*: determination of one of the following in a simple salt mixed with some indifferent substance: water, magnesium, calcium, barium, aluminium, iron, lead, copper, tin, silver, hydrochloric acid, phosphoric acid, sulphuric acid.

5. *Volumetric analysis*: determination of common acids and alkalis. Determination of ferrous and ferric iron, oxalic acid, hydrogen peroxide, by use of potassium permanganate or bichromete of potassium solutions. Determination of iodine, chlorine, manganese peroxide, by use of sodium thiosulphate solution. Determination of chlorides, cyanides silver, by precipitation methods.

6. Determination of the melting point, boiling point, density, transition point of a given substance, or other simple physical constants.

[*Note*.—Text-books and note-books on analysis may be used by the student during the examination].

### B.A. HONOURS EXAMINATION.

#### *First and Second Papers.*

Candidates will be expected to have a fuller and more extended knowledge of those subjects which are common to the syllabuses of the B.A. Pass and B.A. Honours Examinations than is required in the B.A. Pass Examination.

*The principles of chemistry*, including the following: General methods of determining atomic and

molecular weights. Choice of a standard of atomic weights. Atomic and molecular volume. Specific rotatory power. Use of the polarimeter. Molecular refractive power. The periodic system of classification. Elementary notions of the kinetic theory. Diffusion, effusion, transpiration, atmolysis and occlusion of gases. Deviations from the simple laws of gases. Liquefaction of gases. Critical condition of gases. The phase rule and its simple applications. Alloys. Properties of solutions. Osmotic pressure and Van 't Hoff's deductions for dilute solutions. Vapour pressure, freezing and boiling points of dilute solutions. The elements of thermal chemistry and photo-chemistry. The constitution of electrolytes. Electrolytic dissociation. Conductivity. Theory of chemical equilibrium. Velocity of chemical action. Chemical affinity. Relative affinities of acids and bases. Dissociation constants. Spectrum analysis. Emission and absorption spectra. The crystallographic systems. Holohedral and hemihedral crystals. Dimorphism and isomorphism. Stereoisomerism.

*Inorganic Chemistry:*

Candidates will be expected to have studied the subjects enumerated in the B.A. Pass syllabus more fully, and in addition the following : hydrazoic acid ; thionic acids ; hypophosphorus, hyposulphurous and persulphuric acids and their salts. Analysis of

silicates. The chemistry of the principal compounds of lithium, rubidium, caesium, thallium, titanium, cerium, thorium, vanadium, tantalum, molybdenum, tungsten, uranium, rhodium, ruthenium, palladium, osmium, iridium and radium.

*Organic Chemistry :*

The principles of the analysis of organic compounds. Methods of purification. Determination of molecular weights. Polymerism and isomerism. Homology. Classification. Stereoisomerism. The constitution, general methods of preparation, general properties and chemical relations of the following classes of compounds, with special references to the substances mentioned, which should be studied in detail. Methods for the conversion of members of one series into members of another series.

*Aliphatic Compounds:*

*Hydrocarbons:* methane, ethane, propane, butane, pentane ; ethylene, propylene ; acetylene, allylene ; diacetylene.

*Halogen derivatives* of methane, ethane ; ethylene, acetylene.

*Alcohols:* methyl, ethyl, propyl, butyl, amyl ; vinyl, allyl. The mercaptans. The glycols and their simple derivatives. Glycerin and its nitrate and chlorhydrins.

*Ethers :* methyl, ethyl. Mixed ethers.



*Aldehydes*: formic, acetic: chloral; acrylic, crotonic. Aldoxim, acetal.

*Ketones*: acetone, methyl, ethyl, ketoxim.

*Acids*: formic, acetic, propionic, butyric, valeric, palmitic, stearic; acrylic, crotonic, oleic. Glycollic, lactic, gly-oxalic, aceto-acetic. Citric. Oxalic, malonic succinic, malic, tartaric. Fumaric, maleic. Saccharic, mucic.

*Acid derivatives*: (a) esters with inorganic and organic acids; (b) acid anhydrides—acetic anhydride; (c) acid chlorides—acetyl chloride; (d) acid amides—acetamide.

*Nitrogen derivatives*: cyanogen, hydrocyanic acid, cyanides and isocyanides. Amines. Cyanogen chloride, cyanic and thiocyanic acids, cyanamide, urea, thiourea, uric acid, xanthin theobromin, caffeine, alloxan.

*Carbohydrates*: General characteristics of aldoses and ketoses. General relations and properties of the hexoses—fructose, glucose, mannose, galactose, talose. The bioses—sucrose, lactose, maltose, raffinose. Glucosides—amygdalin, salicin.

*Organo-metallic compounds*: zinc methyl, zinc ethyl, Grignard's compounds.

*Aromatic Compounds.*

(a) *Homocyclic Compounds*:

*Hydrocarbons*: trimethylene, benzene, toluene, the xylenes, the trimethyl benzenes.



*Halogen derivatives*: the commonest representatives.

*Nitrogen derivatives*: the mono, di, tri-nitro compounds of benzene. Aniline and its substitution products, anilides. Toluidines, diphenylamine. The simpler diazo and azo compounds. Phenyl and phenyl-methyl hydrazines.

*Sulphonic acids*: benzene, sulphonic. Diazo-benzene sulphonic.

*Phenols*: phenol, cresol; catechol, resorcinol, quinol, pyrogallol, hydroxyquinol, phloroglucinol, tribromophenol, picric acid.

*Alcohol aldehydes and ketones*: benzyl, benzaldehyde, salicyl aldehyde; acetophenone, benzophenone.

*Quinones*: parabenzoquinone.

*Acids*: benzoic, salicylic, cinnamic and their esters. The simple chloro-, sulpho-, nitro-, amino-, methyl-, diazo derivatives.

Phthalic acids, hydrophthalic acids.

Diphenyl, naphthalene and anthracene, and their simpler derivatives.

(b) *Heterocyclic Compounds*:

Furane, thiophene, pyrrol, indole, indoxyl, oxindoles, isatin, indigo.

Pyridin and its carboxylic acids.

Quinoline and isoquinoline. The alkaloids—coneine, nicotine, morphine, quinine, strychnine—their occurrence, methods of preparation and characteristic tests.

Terpenes—pinene, camphene, camphane, Borneo camphor.

### *History of Chemistry:*

Candidates will be expected to be conversant with the history of chemistry from the time of Robert Boyle to the present day, with special reference to the work of the following chemists: Becher and Stahl, Lavoisier, Priestley, Scheele, Dalton, Gay-Lussac, Davy, Faraday, Berthollet, Berzelius, Wöhler, Liebig, Stas, Laurent and Gerhard, Kekulé, Mendelejeff, Kopp, Pasteur, Kolbe, Williamson, Berthelot, Arrhenius, Ostwald, Van 't Hoff, Emil Fischer, Ramsay, Becquerel, Curie.

### *Third Paper.*

Six subjects for essays on the Pass and Honours syllabuses will be given in this paper, and candidates will be required to confine themselves to two of these.

### *Practical Examination.* (Two days.)

Candidates will be examined in the following:—

1. (a) Complete gravimetric analysis of a simple salt, the qualitative composition being given; (b) a more difficult volumetric estimation involving the

principles of volumetric analysis as given in the Pass syllabus ; (c) the elements of gas analysis.

2. (a) Determination of molecular weight of an organic compound by physical or chemical methods ; (b) determination of carbon or hydrogen or nitrogen of an organic substance.

Two questions will be set from group 1, and one from group 2. Special stress is laid upon the care taken in manipulation and the accuracy of the results obtained.

Students in the Intermediate Class must provide themselves with Newth's *Inorganic Chemistry* (6/6).

In the B.A. Class the following Books will be required :

Thorpe's *Chemistry*, 2 vols. ; Cohen's *Organic Chemistry* ; Sudborough and James' *Practical Organic Chemistry* ; Newth's *Manual of Chemical Analysis*, and Walker's *Physical Chemistry*.

Honours students in addition to these will require Cohen's *Larger Text Book on Organic*, Ostwald's *Theoretical Chemistry*.

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## Geology.

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PROFESSOR :

E. H. L. SCHWARZ, A.R.C.S., F.G.S.

The B.A. course consists of three parts :

(a) Intermediate; (b) B.A. Pass; (c) B.A. Honours.

### SYLLABUS OF LECTURES.

#### (a) *Intermediate Standard.*

GENERAL GEOLOGY : The earth in relation to the solar system. Original rocks all derived from molten magma. Origin of sedimentary rocks. Distribution of land and water over the globe. Land forms : continents and islands.

SEDIMENTARY ROCKS: Conglomerates, sandstones, mudstones, clays, coal, ironstone and limestone. Structures produced during deposition. Arrangement of fossils in strata. Marine, fresh-water and terrestrial deposits. Consolidation and subsequent alteration of strata and petrification of organic remains. Elevation of strata above the sea. Folding and faulting. Unconformity, overlap, outliers and inliers. Denudation and its effects.

STRATIGRAPHY : Classification of sedimentary rocks into Primary, Secondary and Tertiary deposits.

PALAEONTOLOGY : Fossils and their use in determining the age of the rocks. The South African formations compared with the European ones.

MINERALOGY : Crystal forms.

Minerals forming (a) rocks ; (b) ore-bodies.

IGNEOUS ROCKS : Principles of classification. Granites, syenites, diorites, gabbros, felsites, andesites, trachytes, dolerites, basalts, peridotites, eclogites and meteorites.

Volcanoes, their distribution and nature.

METAMORPHIC ROCKS : Gneiss, schist, slate, dolomite and marble. Contact and regional metamorphism.

Practical work will consist in drawing maps and sections and crystal models, and in the determination of minerals under the microscope and by blow-pipe analysis. Students will be expected to join in the field excursions, and to regard them as part of their College work.

(b) *B.A. Standard.*

The work for this subject covers a period of two years, and comprises full courses in General Geology, Stratigraphy, Crystallography, Mineralogy and Petrology as detailed in the University Syllabus. Opportunities will be given for field excursions in which students will be expected to take part. Great stress

is laid in the Examinations on South African Geology, and students are expected to read extensively the reports of the various Geological Surveys in South Africa and proceedings of the Geological Society of South Africa, copies of which are kept in the library of the department. Students intending to take this subject are recommended to take Geology in the Intermediate Examination, but this is not compulsory.

(c) *B.A. Honours Standard.*

For Honours in Geology the student must decide whether he is to go in for the Mineralogical or Palaeontological side of the subject ; in the first case Chemistry and Physics must be regarded as essential as complementary subjects, and in the second case Botany and Zoology must be taken.

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**MINING COURSE : GEOLOGY.**

Under the new Syllabus of the Cape University, candidates for the Diploma in Mining Engineering take a two years' course in purely scientific training, and a second two years' course in the technical side of the subject. In geology the first year's course consists of elementary general principles ; the second, of more advanced work in the special branches. The lectures will be followed by practical work in the laboratory and by excursions in the field. In the

Long Vacation students are advised to take practical underground work from the first year if possible, arrangements for which will be made.

The following is extracted from the new regulations :—Candidates who pass the First and Second Mining Examinations at the University, and subsequently take third and fourth years' courses in Mining at some recognised mining school, to the satisfaction of the authorities of the school, and of the University Council, will be entitled to have the diploma in Mining Engineering of the Cape University.

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### SURVEY COURSE.

A general course in Geology, with special reference to South Africa, and with regard to the requirements of the various examinations. The first year's work is taken in conjunction with the Intermediate class.

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## Botany.

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PROFESSOR :

S. SCHÖNLAND, Hon. M.A. (*Oxon.*), Ph.D. (*Kiel*).

The courses in this department are divided for the most part according to the requirements of the examinations held annually by the University of the

Cape of Good Hope. The lectures are illustrated by models, diagrams and demonstrations of specimens. Students are expected to attend regularly the laboratory classes and to take part in the excursions, on which a large number of characteristic types of South African plants are met with. These excursions are arranged at suitable seasons on Saturday afternoons.

Separate and distinct books must be kept for lecture notes, laboratory work and excursion notes.

Students will have the free use of apparatus for anatomical and physiological work, and will also be supplied, without extra charge, with the chemicals, etc., necessary for their work. Students will be held responsible for the microscopes entrusted to them. Each student must provide himself with

- 1 good hollow-ground razor,
- 1 razor-strop,
- a few scalpels,
- 1 fine pair of scissors,
- dissecting needles,
- a few camel-hair brushes of different sizes,
- the usual notebooks,
- a sketch-block and drawing implements.

Special facilities will be given to advanced students who wish to do original work.

The Grahamstown Botanic Gardens adjoin the College premises.



The herbarium and library of the Albany Museum, which is also close to the College, can be made use of by students.

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### FIRST YEAR'S COURSE.

This will include three lectures and one laboratory class per week. The course covers the work prescribed in the University Intermediate Syllabus, and is adapted to the requirements of First Year Medical Students.

Students should provide themselves with the following book :

*Text-book of Botany*, by Lowson. (W. B. Clive).

*General Elementary knowledge of*

- (a) Seeds. Their form and structure, the seed-coat, out-growths of the testa, storage of food, embryo. Conditions of germination. Typical methods of germination.
- (b) External morphology of the flowering plant : modifications of root, stem and leaf, phyllotaxis, vernation and aestivation, morphology of the flower, floral diagrams, the principal forms of fruit. Candidates may be required to answer questions on these subjects relative to specimens submitted to them.

- (c) The main facts of pollination and seed-distribution, with special reference to South African plants. Pollination by wind, insects and birds, diclinism, dichogamy, self-sterility, prepotency, heteromorphism, important types of floral mechanisms which favour (a) cross-pollination, (b) self-pollination.

The more common mechanisms which favour distribution of seeds.

- (d) Structure, biology and life-histories of the following types or their equivalents : *Saccharomyces*, *Spirogyra*, *Vaucheria*, *Nostoc*, *Mucor*, *Agaricus*.
- (e) Life-histories of a liver-wort, *Selaginella* and *Pinus*.
- (f) Internal morphology and anatomy of the Angiosperms as exemplified by *Helianthus*, *Quercus*, *Zea*. The cell and its principal modifications. Protoplasm, nucleus, plastids, cellsap, starch-grains. The cell-wall, its structure, growth and chemical alterations. The tissues and their distribution and arrangement in root, stem and leaf. Stomata. Intercellular spaces. Secondary thickening of stem and root. Medullary rays. Annual rings. Periderm, bark, lenticels.

- (g) Elementary principles of the physiology of nutrition, respiration and growth.

Constituents of the plant-body, essential constituents of plant-food, absorption of liquids, transpiration, assimilation, products of assimilation, storage of reserve material, parasitism, saprophytism, respiration, growth of stem, root and leaf, regions of growth, measurement of rate of growth, direction of growth as influenced by light and the force of gravity.

- (h) The general principles of the classification of plants. A general knowledge of the following natural orders as illustrated by important types native of or cultivated in South Africa : Amaryllidaceae, Compositae, Crassulaceae, Cruciferae, Gramineae, Iridaceae, Leguminosae, Liliaceae, Orchidaceae, Proteaceae, Rosaceae, Thymelacaceae, Umbelliferae.

- (i) The determination of the natural order of a specimen or specimens belonging to one of the orders prescribed in (h).

#### SECOND YEAR'S COURSE.

There will be three lectures and two laboratory classes per week, which will cover the work specified

in the University syllabus for the B.A. Pass Examination. Excursions are held at suitable seasons. Students will be required to have attended the first year's course or its equivalent.

Students should provide themselves with the following books :

*Text-book of Botany*, by Strasburger, Noll, Schenck and Karsten. (Macmillan & Co.).

*Hand-book of Practical Botany*, by Strasburger. Translated by Hillhouse. (Swan, Sonnenschein & Co.).

*Practical Plant Physiology*, by W. Detmer. Translated by S. A. Moor. (Swan, Sonnenschein & Co.).

- (1) An elementary knowledge of the morphology (including life-histories), structure, affinities and principles of sub-division of the following groups as illustrated by the families and types specified :—

*Myxomycetes*.

*Schizophyta* : *Bacillus subtilis*, *Nostoc*\*, *Oscillatoria*.

*Diatomaceæ* : *Navicula*.

*Algae* : *Caulerpa*, *Chara*\*, *Closterium*\*, *Coleochaete*, *Ectocarpus*\*, *Laminaria*, *Nemalion*,

Oedogonium\*, Pelvetia\* (or Fucus\*), Polysiphonia\*, Sphaerella (Haematococcus), Spirogyra\*, Ulothrix\*, Vaucheria\*, Volvox, Zygnema\*.

*Fungi*: Agaricus\*, Boletus, Claviceps, Erysiphe\*, Lycoperdon, Merulius, Mucor\*, Peziza\*, Phallus, Phytophthora, Polyporus\*, Puccinia\*, Pythium\*, Saccharomyces\*, Saprolegnia\*, Sphaerotheca, Tilletia, Ustilago.

*Lichenes*: Collema, Cora, Parmelia\*.

*Bryophyta*: Anthoceros\*, Funaria\*, Marchantia\*, Pellia, Polytrichum, Sphagnum.

*Pteridophyta*: Aspidium\*, Equisetum\*, Isoetes, Lycopodium, Marsilia, Ophioglossum, Selaginella\*.

*Spermaphyta*: Dracaena\*, Helianthus\*, Quercus\*, Stangeria, Zea\*.

- (2) The principal facts of the structure, division and contents of the plant cell and the differentiation of the tissues of the vascular plants.
- (3) A general knowledge of the physiology of growth, nutrition, movement and reproduction. Organs and their functions. Relations of the plant to external conditions.

- (4) The diagnostic characters, principles of subdivision, inter-relationships, geographical distribution and economic importance of the following natural orders (in addition to those in the Intermediate syllabus): Asclepiadaceae, Campanulaceae, Caryophyllaceae, Coniferae, Cycadaceae, Cyperaceae, Ericaceae, Euphorbiaceae, Ficoideae, Geraniaceae, Malvaceae, Polygalaceae, Ranunculaceae, Restiaceae, Rubiaceae, Rutaceae, Solanaceae, Scrophulariaceae.

Strasburger, Noll, Schenck and Schimper's Text-book of Botany (English edition, revised by Lang), section ii, may be taken as a guide to the range of the examination in section 3.

### THIRD YEAR'S COURSE.

Students, who are taking the Pass papers in the University B.A. Examination, will, after this course is finished, attend a revision of laboratory work and tutorial classes which will be specially arranged for them. Students reading for the Honours Examination will attend two lectures and three laboratory classes per week. No student will be admitted who has not attended the second year's course or its equivalent.

- (a) The subjects of the B.A. Pass Syllabus treated more fully.
- (b) A general knowledge of the morphology (including life-histories), structure, affinities, and principles of subdivision of the following groups, as illustrated by the families and types specified.

*Schizophyta* : Bacteria, Gloeocapsa, Oscillatoria\*, Rivularia.

*Algae* : Acetabularia, Batrachospermum, Botrydium, Cladophora\*, Coleochaete\*, Corallina, Cosmarium, Cutleria, Delesseria, Dictyota, Ecklonia, Enteromorpha\*, Hydrodictyon, Laminaria\*, Nitella, Pandorina, Pedastrum, Pleurococcus\*, Polysiphonia\*, Porphyra, Sargassum, Scenedesmus, Splachnidium, Tetraspora, Ulothrix\*.

*Fungi* : Amanita, Auricularia, Coleosporium, Coprinus\*, Crucibulum, Cystopus\*, Empusa, Eurotium, Exobasidium, Geaster, Hydnum, Mycorrhiza\*, Nectria\*, Penicillium\*, Peronospora, Pilacre, Pilobolus, Plasmopara\*, Stereum\*, Tremella.

*Bryophyta* : Andraea, Archidium, Buxbaumia, Jungermannia, Lunularia\*, Polytrichum\*, Riccia\*, Sphagnum\*.

*Pteridophyta* : Angiopteris, Azolla\*, Botrychium, Helminthostachys, Isoetes\*, Marattia, Marsilia\*, Osmunda\*, Phylloglossum, Pilularia, Psilotum, Salvinia\*.

*Spermaphyta*: Callitris\*, Cycas, Encephalartos\*, Ephedra, Gingko, Podocarpus\*, Sequoia, Stangeria, Taxus, Welwitschia.

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## Zoology.

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PROFESSOR :

J. E. DUERDEN, M.Sc., Ph.D., A.R.C.S.

The Zoological Department is furnished with the equipment necessary for the conduct of zoological work in all its ordinary branches. Copies of all the standard text-books and numerous journals and works of reference in zoology have been obtained ; much preserved material and many preparations and skeletons are available for study, and a series of charts, diagrams, and lantern slides for lecture purposes. Compound microscopes, the Minot rotary microtome, and dissecting instruments are provided for laboratory use, and also an incubator for embryological studies.

While the class work must necessarily be on the lines prescribed in the Calendar of the University of



the Cape of Good Hope, the value of zoology as a subject peculiarly adapted for training in independent observation, interpretation, and expression by writing and drawing is emphasised, and students are encouraged to work out forms of life on their own account, for which purpose the laboratory is open all day during each term. Advanced students are encouraged to take up original research. As the College is situated in the midst of an agricultural district special attention is given to the animals of economic importance and a course arranged for their study. Instruction in the collection and preservation of animals and in museum methods is given to those who desire it, and a course in the principles of Nature Study for teachers.

The proximity of the Albany Museum is an advantage to students, enabling them to gain an acquaintance with all the principal types of the animal kingdom and of South African forms in particular. The museum library also contains many journals and works of reference which are available for advanced students.

Students who show a special aptitude will be encouraged to continue in zoology, giving part of their time to assisting in the laboratory or to research. It is expected that suitable remuneration will be available for one or two such assistants. Persons in

South Africa desiring to carry on advanced zoological work are asked to communicate with the Professor of Zoology relative to such assistantships.'

### I.—THE INTERMEDIATE COURSE.

The course will extend over one year and will consist of three lectures per week and one or two laboratory periods. It is designed for those who wish to gain a general knowledge of animal life and biological methods and principles. The work includes the zoology necessary for the University Intermediate Examination, and is also adapted to the requirements of first-year medical students in the British Universities. Copies of the various text-books and works of reference in zoology are kept in the laboratory and are available for students' use.

The following is the zoological course prescribed for the Intermediate Examinations of the University:

1. The elements of anatomy, histology, physiology and embryology, as exemplified by the frog.
2. The distinguishing characters of the following sub-kingdoms, and of the subdivisions mentioned under each, with an elementary knowledge of the types specified :—
  - (a) *Protozoa* : *Rhizopoda* (*amæba*) ; *Flagellata* (*heteromita*, *euglena*, *vulvox*) ; *Ciliata* (*vorticella*).

- (b) *Coelenterata* (excluding porifera): Hydromedusae (hydra, *bougainvillia* or *obelia*); Actinozoa (actinia).
  - (c) *Annelida* (*lumbricus*).
  - (d) *Arthropoda*: Crustacea (*palinurus* [*jasus*]); Insecta.
  - (e) *Echinodermata* (asterias).
  - (f) *Mollusca*: Gasteropoda (*helix*); Lamellibranchiata.
  - (g) *Vertebrata*: Pisces (dogfish); Amphibia (*rana*); Reptilia; Aves; Mammalia (*lepus*).
3. The development of a chick or a mammal treated in an elementary manner.
  4. An elementary knowledge of the theory of organic evolution (variation, heredity, natural selection, degeneration, geographical distribution).
  5. Life histories of the malarial parasite (*laverania*), the liver fluke (*fasciola*) and the tapeworm (*taenia*).

[Candidates will be expected to have studied practically the types printed in italics in paragraphs 2, or equivalents thereof.]

## II.—ADVANCED COURSE (B.A. PASS).

The course will consist of two years' work, and will be open to students who have taken the Intermediate Course or its equivalent. Lectures, demon-

strations, and conferences and museum work as are necessary to cover all the groups of the animal kingdom and their principal subdivisions. Students will gain an experience of microscopical methods, including fixing, staining, sectionising and mounting, and also practical embryology. The work will suffice for the B.A. Pass examination of the University.

The following is the syllabus for the B.A. Pass Examination :—

*Written Examination.* (Two papers.)

I. A general elementary knowledge of the following groups, and of the subdivisions mentioned thereunder, with special reference to the types specified, which should be studied practically where possible.

1. *Protozoa* :—

(a) Mycetozoa.

(b) Rhizopoda.

(a) Lobosa (amœba, difflugia).

(β) Heliozoa (actinophrys or actinosphærium).

(γ) Foraminifera (globigerina).

(δ) Radiolaria (sphærozoum).

(c) Sporozoa.

(d) Flagellata (hæmatococcus, euglena, monosiga).

(e) Ciliata (vorticella, zoothamnium, paramœcium, opalina).

2. *Cœlenterata* :—

A. Porifera.

(a) Calcarea (*Olynthus* type).

(b) Non-calcarea.

- ( $\alpha$ ) Myxospongida.
- ( $\beta$ ) Triaxonida.
- ( $\gamma$ ) Tetraxonida.
  - ( $\alpha'$ ) Tetractinellida.
  - ( $\beta'$ ) Monaxonellida.
  - ( $\gamma'$ ) Ceratosa (euspongia).
- B. Cnidaria.
  - (a) Hydromedusæ (hydra, bougainvillia, physalia).
  - (b) Acalephæ (aurelia).
  - (c) Actinozoa.
    - (a) Alcyonaria (alcyonium).
    - ( $\beta$ ) Zoantharia.
      - ( $\alpha'$ ) Actiniaria (actinia).
      - ( $\beta'$ ) Madreporaria (madrepora).
    - (d) Ctenophora (hormiphora).
- 3. *Platyhelminthes*:—
  - (a) Turbellaria (dendrocœlum or leptoplana).
  - (b) Trematoda (fasciola).
  - (c) Cestoda (tænia).
- 4. *Nemathelminthes* (ascaris).
- 5. *Nemertinea*.
- 6. *Annelida*:—
  - (a) Archiannelida (polygordius).
  - (b) Chætopoda.
    - (a) Polychæta (polynœe or arenicola).
    - ( $\beta$ ) Oligochæta (lumbricus).
  - (c) Hirudinea.
    - (a) Rhynchobdellidæ.
    - ( $\beta$ ) Gnathobdellidæ (hirudo).
- 7. *Rotifera*.
- 8. *Polyzoa* (plumatella).
- 9. *Brachiopoda*.

10. *Mollusca*:—

A. Lamellibranchiata (unio).

B. Gasteropoda.

(a) Isopleura.

(b) Anisopleura.

(a) Streptoneura.

(a') Zygobranchia.

(β') Azygobranchia.

(β) Euthyneura.

(a') Opisthobranchiata.

(β') Pulmonata (helix).

C. Cephalopoda.

(a) Tetrabranchiata.

(b) Dibranchiata (sepia).

11. *Arthropoda* :—

A. Crustacea.

(a) Entomostraca.

(a) Phyllopoda.

(β) Ostracoda.

(γ) Copepoda.

(δ) Cirripedia (lepas).

(b) Malacostraca.

(a) Arthrostraca.

(a') Amphipoda.

(β') Isopoda (oniscus).

(β) Thoracostraca.

(a) Stomatopoda.

(β') Schizopoda.

(γ') Decapoda (palinurus [jasus]).

B. Arachnida.

(a) Xiphosura.

(b) Scorpionida (scorpio).

(c) Araneida.

(d) Acarina.

C. Protracheata.

D. Myriapoda.

(a) Chilopoda.

(b) Diplopoda.

E. Insecta.

(a) Apterygota.

(b) Pterygota.

(a) Orthoptera (blatta or periplaneta).

(β) Hemiptera.

(γ) Coleoptera.

(δ) Diptera.

(ε) Lepidoptera.

(ζ) Hymenoptera.

12. *Echinodermata*.

(a) Asteroidea (asterias).

(b) Ophiuroidea.

(c) Echinoidea.

(d) Holothuroidea (cucumaria).

(e) Crinoidea (antedon).

13. *Hemichorda*.

14. *Urochorda* (ascidia).

15. *Cephalochorda* (amphioxus).

16. *Vertebrata* :—

A. Cyclostomata (petromyzon) or bdellostoma.

B. Pisces.

(a) Elasmobranchii (dogfish or skate).

(b) Ganoidei.

(c) Teleostei.

(d) Dipnoi.

C. Amphibia.

(a) Urodela.

(b) Anura (rana).

## D. Reptilia.

- (a) Chelonia.
- (b) Lacertilia.
- (c) Ophidia.
- (d) Crocodilia.

## E. Aves.

- (a) Ratitae.
- (b) Carinatae (columba).

## F. Mammalia.

- (a) Prototheria.  
Monotremata.
- (b) Metatheria.  
Marsupialia.
- (c) Eutheria.
  - (a) Edentata.
  - (β) Sirenia.
  - (γ) Ungulata.
    - (α') Artiodactyla.
    - (β') Perissodactyla.
    - (γ') Hyracoidea.
    - (δ') Proboscidea.
  - (δ) Cetacea.
  - (ε) Rodentia (lepus).
  - (ζ) Carnivora.
    - (α') Fissipedia.
    - (β') Pinnipedia.
  - (η) Insectivora.
  - (θ) Chiroptera.
  - (κ) Lemuroidea.
  - (λ) Anthroipoidea.

## II. Elements of comparative anatomy and embryology.



III. Those portions of the Intermediate Syllabus not included in the above.

*Practical Examination.* (One day.)

Dissection or examination of the types mentioned in brackets in paragraph 1 or of equivalents thereof. Candidates will also be expected to be able to refer any typical examples of the groups enumerated to their proper systematic position in accordance with the scheme of classification given, and to point out the characters upon which they rely in so doing.

An elementary knowledge of microscopical methods will also be expected.

### III.—HONOURS COURSE.

This course will be given concurrently with the Advanced Course (B.A. Pass) but with fuller treatment. The syllabus prescribed by the University is as follows :—

*Written Examination.* (Two papers.)

The subjects of the Intermediate and B.A. Pass Syllabus treated more fully.

Candidates will also be expected to have a general knowledge of the following groups : Trilobita, ammonoidea, stegocephalia, anomodontia, ichthyosauria, plesiosauria, dinosauria, rhynchocephalia, saururæ.

*Practical Examination.* (Two days.)

I. As for the Pass Examination, but with the addition of the following types (or equivalents thereof) for dissection or examination. (Those marked with an asterisk as to external characters only, and those with a dagger as to skeleton only.)

Sycon, oscarella tetilla† or stelletta†, halichondria†, tubularia, obelia, cunina, millepora†, velella\*, lucernaria, gorgonia†, corallium\*, pennatula\*, tubipora†, fungia†, terebratula†, chiton\*, patella, littorina, aplysia, nautilus†, octopus, spirula†, apus or streptocephalus\*, cypris\*, daphnia\*, cyclops\*, balanus\*, gammarus\*, squilla\*, mysis, telphusa\*, limulus\*, aranea (epeira)\*, peripatus, scolopendra\*, julus\*, podura\*, lepisma\*, a beetle\*, musca\*, a butterfly\*, apis\*, echinus, ophiura, balanoglossus, fritillaria, salpa, dentex, testudo†, lacerta, bitis†, felis†.

II. Examination of typical chick embryos and sections thereof.

III. Staining and mounting preparations for the microscope and cutting sections by the paraffin method.

**IV.—COURSE OF NATURE STUDY (ZOOLOGY.)**

The course is intended for teachers and others interested in the subject, and will consist of Lectures,

Conferences, Laboratory Work, and Field Studies. Attention will be directed to the leading facts, principles and methods in Nature Study, so as to give teachers a groundwork for their own studies.

Further particulars will be announced in due course.

#### V.—ZOOLOGICAL RESEARCH.

Advanced students will be encouraged to take up some subject for research, and assistance will be given by the department in the way of material, apparatus, and literature. The facilities of the laboratory will also be placed at the disposal of specialists other than regular students who may desire to carry on zoological research.

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### Biology.

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PROFESSOR OF BOTANY.

S. SCHONLAND, Hon. M.A. (*Oxon.*), Ph.D. (*Kiel*).

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PROFESSOR OF ZOOLOGY :

J. E. DUERDEN, M.Sc., Ph.D., A.R.C.S.

Students taking Biology as a single subject for the Department of Science of the B.A. Examination will be required to attend a two years' course in Botany and Zoology. The subject is recommended to

be taken along with chemistry and physics by those students who propose to study medicine after taking the B.A. degree.

The following is the syllabus prescribed for the University B.A. Pass Examination :—

### **BOTANY.**

*Written Examination.* (One paper.)

The syllabus will be the same as for the Intermediate Examination in Botany, but a higher standard will be expected.

*Practical Examination.* (One day.)

- (a) Determination and description of specimens as for the Intermediate Examination.
- (b) Examination by microscopical methods or otherwise of *Saccharomyces*, *Spirogya*, *Mucor*, *Aspidium*, *Zea mays*, *Helianthus*.

### **ZOOLOGY.**

*Written Examination.* (One paper.)

The syllabus will be the same as for the Intermediate Examination in Zoology, but a higher standard will be expected.

*Practical Examination.* (One day.)

Dissection and examination of all the types specified in section 3 of the Intermediate Syllabus, or of equivalents thereof. Candidates will also be expected to be able to

refer any typical examples of the groups enumerated to their proper systematic position in accordance with the scheme of classification given in the intermediate Syllabus, and to point out the characters on which they rely in so doing. An elementary knowledge of microscopical methods will also be expected.

[There will be no Honours Examination in Biology.]

No candidate will be allowed to take biology as a subject in the B.A. Examination who has already taken either botany or zoology at the Intermediate Examination.

The papers set for the B.A. Examination shall be different from those set for the Intermediate and of a higher standard.

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## Department of Law and Jurisprudence.

PROFESSOR :

W. A. MACFADYEN, M.A. (*Oxon.*), LL.D. (*Cape*).  
(Late Scholar of Brasenose College, Oxford; formerly Lecturer in the Staats Gymnasium, South African Republic; Advocate of the Supreme Court, Cape Colony, Supreme Court, Transvaal, and the Eastern Districts Court, Grahamstown, Cape Colony).

The general intention with which a chair in this subject has been established is set forth in a paragraph which appears in the report of the College Council for 1904. It is quoted here as indicating the general scope and reference of the lectures in this subject.

“The Council has decided on the establishment of a Professorship of Law and Jurisprudence. There is great need for the scientific and philosophic teaching of law. It is remarkable that nothing of the kind has yet been instituted in South Africa, and the Council has therefore deemed it right to make the necessary arrangements for the appointment of a professor who will teach law in a proper scientific manner. Should this endeavour meet with the success the Council anticipates, the creation of an additional chair in law may probably be decided on.”

Courses in law, each extending over an academical year, have been drawn up, and lectures in connection therewith are now being delivered to students in preparation for the Law Certificate and the Preliminary and Final LL.B. degrees in the University of the Cape of Good Hope.

Arrangements will be made for systematic instruction in preparation for any other law examinations of the said University as occasion arises.

Students who desire to pursue any special course or study in law are also invited to communicate with the Registrar, when arrangements will be made as far as possible to meet their requirements.

All regular instruction is both professorial and tutorial, consisting of both class lectures and personal teaching and correction of essays and other practical work with the individual student. Each student pursuing any of the University courses is required to attend at least one lecture a day, and write at least one essay a week during term, upon some subject connected with the course. Arrangements are made by which articled clerks and candidates for the Civil Service examinations are enabled to take their lectures out of office hours.

The fee for attending each of the law classes is £2 10s. per term.

The following are the Regulations of the Law Examinations :—

#### GENERAL REGULATIONS.

- (1) No text-books will be prescribed in future for the Law Examinations, but lists of books will be recommended from time to time to indicate the range of the the examination in each subject.

- (2) No candidate will be admitted to the Final LL.B. Examination until after the expiration of two academic years from the date of his passing the Preliminary LL.B. Examination.

### I. — LAW CERTIFICATE EXAMINATION.

- (1) The Examination will be divided into two parts. No candidate will be admitted to Part II. until one year after passing Part I.
- (2) The subjects for the two parts of the Examination are as follows :

#### PART I.

1. Roman Law. (One paper).
2. Roman-Dutch Law. (One paper).
3. English Law of Contracts and Torts. (Two papers).

#### PART II.

1. Roman-Dutch Law and Notarial Practice. (Two papers).
2. English Law of Evidence and Criminal Law. (One paper).
3. Statute Law. (Two papers).

(Statutes as at present prescribed by the University).

Part I.—Roman Law :

Sandar's *Institutes of Justinian* (including the Introduction).



**Roman-Dutch Law :**

Van der Linden's *Institutes of the Law of Holland*  
[Books I, II, III (Part I, Chapters 1-7)  
and IV (Chapter 1.)].

**English Law of Contracts and Torts :**

Anson's *Law of Contract*, Fraser's *Law of Torts*.

**Part II.—Roman-Dutch Law and Notarial Practice:**

Maasdorp's *Institutes of Cape Law*.

Van Zijl's *Notarial Practice of South Africa*.

**English Law of Evidence and Criminal Law:**

Kenny's *Outlines of Criminal Law* (Books I, II  
and III), Powell's *Law of Evidence* (Parts  
I and II).

**II.—CIVIL SERVICE LOWER LAW EXAMINATION.**

Persons in the public service included in one or other of the following classes are eligible as candidates for the Civil Service Lower Law Examination.

- (a) All persons who, having passed the Civil Service Examination, have been appointed to any office included in Schedule A to Act 32 of 1895, or who are eligible for such an appointment.
- (b) All other persons on the fixed establishment of the Civil Service who are eligible to hold an office included in Schedule A in any other ministerial division.

- (c) Officers and non-commissioned officers of the Cape Mounted Riflemen or of the police forces, and other persons in the public service discharging duties not of a temporary character, after five years' continuous service are allowed to enter for the Civil Service Law Examination, and their names, if successful, will be recorded and published in a separate list.
- (1) The Examination is divided into two parts. No candidate will be admitted to Part II until one year after passing Part I.
- (2) The subjects for the two parts of the Examination are as follows :

## PART I.

English Law of Contracts and Torts. (Two papers.)

As for Part I. of the Law Certificate Examination.

Roman-Dutch Law. (One paper.)

As for Part I. of the Law Certificate Examination.

## PART II.

English Law of Evidence and Criminal Law.  
(One paper.)

As for Part II. of the Law Certificate Examination.

Roman-Dutch Law. (Two papers.)

As for Part II. of the Law Certificate Examination, special questions being substituted for the Notarial Practice part of the Law Certificate paper.

Statute Law. (Two papers.)

As for Part II. of the Law Certificate Examination.

(1) Special Regulations for Law Certificate and C. S. Lower Law Examinations.

(a) In 1910 and 1911 papers will be set under the Old and under the New Regulations (i.e. Part I only in 1910), candidates having the option of being examined either under the Old or under the New Regulations.

(b) In and after 1912 papers will be set under the New Regulations only.

(c) Candidates who fail to pass the examination under the Old Regulations will be permitted to take both Parts of the examination under the New Regulations in the same year.

(d) No Certificate will be issued for passing Part I of the examination under the New Regulations.

(c) The total fee of £10\* is equally divided between Parts I and II, viz : £5\* (re-registration £2 10s.) each.

(\*In case of the C. S. Lower Law Examination £2 and £1 respectively.)

(2) In and after 1910 the Law Certificate Examination will be held in June of each year, as well as in December ; the examination in June 1910 to be under the Old Regulations only.

### III.—PRELIMINARY LL.B. EXAMINATION.

(1) The subjects for the Preliminary LL.B. Examination are as follows :

1. Roman Law and the History of Roman Law. (Two papers.)

2. Roman-Dutch Law. (One paper.)

3. English Law of Contracts and Torts and Criminal Law. (Two papers.)

N.B.—Questions may also be set on Roman-Dutch Criminal Law.

4. General Jurisprudence. (One paper.)

(2) The following is the list of books recommended for the Preliminary LL.B. Examination :

Roman Law and the History of Roman Law :  
Sandar's *Institutes of Justinian*, Sohm's  
*Institutes of Roman Law*, Muirhead's  
*Historical Introduction to the Private  
Law of Rome*.

## Roman-Dutch Law :

Grotius' *Introduction to Dutch Jurisprudence* (Maasdorp's Translation including Schorer's notes). Van der Kessel's *Theses Selectae*.

## English Law :

Contracts and Torts : Pollock's *Principles of Contract*, Pollock's *Law of Torts*, Anson's *Law of Contract*.

Criminal Law : Kenny's *Outlines of Criminal Law*, Kenny's *Select Cases on Criminal Law*, Books I.—III., (omitting Book IV). Van der Linden, Book II.

## General Jurisprudence :

Holland's *Elements of Jurisprudence*, Austin's *Lectures on Jurisprudence*.

## IV.—FINAL LL.B. EXAMINATION.

(1) The subjects for the Final LL.B. Examination are as follows :

1. History and Principles of Roman Law. (One paper.)
2. Roman-Dutch Law and History. (Two papers.)
3. Law of Evidence. (One paper.)
4. Private International Law. (One paper.)
5. Public International Law. (One paper.)

6. A special subject to be prescribed from time to time. (One paper).

Subject for 1911 : Bills of Exchange and Promissory Notes.

7. Roman and Roman-Dutch Law. Special subject to be prescribed from time to time. (One paper.)

Subject for 1911 : Voet, Book XIX, Tit. 2, on *Letting and Hiring*, with special reference to the corresponding portions of the *Institutes* and *Digest*.

- (2) The following is the list of books recommended for the Final LL.B. Examination :

History and principles of Roman Law :

Salkowski's *Institutes and History of Rome Private Law*.

Roman-Dutch Law and History :

Maasdorp's *Institutes of Cape Law*,  
Wessel's *History of Roman-Dutch Law*.

Law of Evidence :

Stephen's *Digest of the Law of Evidence*,  
Cockle's *Leading cases on the Law of Evidence*.

Private International Law:

Dicey's *Conflict of Laws* ; Foote's  
*Treatise on Private International Jurisprudence*.

**Public International Law:**

Laurence's *Principles of International Law*; Hall's *International Law*.

- (a) The papers to be set in the years 1910, 1911 and thereafter will be as follows :

**PRELIMINARY LL.B.**

1910 Old Regulations, New Regulations\*

1911 New Regulations.

1912 etc., New Regulations.

**FINAL LL.B.**

1910 Old Regulations.

1911 Old Regulations.

1912 etc., New Regulations.

(\*If there are candidates).

**SUPPLEMENTARY EXAMINATION.**

The following special regulations will apply to any candidate who, being a graduate in Arts of the University of the Cape of Good Hope, has obtained after examination the degree of Bachelor of Laws, or Bachelor of Civil Law, in any University approved by the Council, or has taken First or Second Class Honours at the Final Examinations in the School of Jurisprudence at the University of Oxford :—

- (a) The candidate will be excused from the Preliminary LL.B. Examination, and from all the subjects of the Final LL.B. Examination, except the following: Roman-Dutch Law and the History of Roman-Dutch Law, Roman and Roman-Dutch Law (special subject).
- (b) In order to be approved by the examiners the candidates must obtain at least one-half of the total aggregate in the three papers in the above subjects combined.

The fee for this partial examination is the same as for the full examination.

#### **CIVIL SERVICE LL.B. EXAMINATION.**

Any person on the fixed establishment of the Civil Service, or any passed candidate, who shall also have passed the Civil Service Lower Law Examination, is entitled to enter for the examination for the degree of Bachelor of Laws ; but no person shall, by reason of his having passed such examination, be entitled to the degree of LL.B., unless he shall at the time of entrance have been a Bachelor of Arts or Master of Arts of the University.

#### **CIVIL SERVICE HIGHER LAW EXAMINATION.**

Any person on the fixed establishment of the civil service, or any passed candidate, who shall also



have passed the Civil Service Lower Law Examination, is entitled to enter for the Civil Service Higher Law Examination.

- (a) The Examination is divided into two parts.  
No candidate to be admitted to Part II until one year after passing Part I.
- (b) The total fee of £3 is equally divided between Parts I and II, viz., £1 10s. for each.
- (c) The subjects for the two Parts of the examination are as follows :

#### PART I.

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Roman Law and the History of Roman Law (two papers).</li> <li>2. English Law of Contracts and Torts. Criminal Law (two papers).</li> <li>3. General Jurisprudence (one paper).</li> </ul> | All as for Preliminary LL.B. Examination. |
|---|---|

#### PART II.

- |   |                                     |
|---|-------------------------------------|
| <ul style="list-style-type: none"> <li>1. Roman-Dutch Law and History (two papers).</li> <li>2. Law of Evidence (one paper).</li> <li>3. Roman and Roman-Dutch Law—Special Subject (one paper).</li> <li>4. A special subject to be prescribed from time to time (department unspecified).</li> </ul> | All as for Final LL.B. Examination. |
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The following is the special subject in Roman Dutch Law for the Civil Service Higher Law Examination in 1911 :

Voet, Book XIX, Tit. 2 on Letting and Hiring  
(Trans. Solomon).

#### DOCTOR OF LAWS EXAMINATION.

No candidate will be admitted to this examination unless he has obtained or been admitted to the degree of Bachelor of Laws in the University of the Cape of Good Hope at least three academic years before the examination commences.

Every candidate entering for this examination for the first time must pay a fee of twenty 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 LL.D. examination on payment of an additional fee of five pounds each time that his name is registered.

The subjects for this examination are:—

- (a) Roman Law.
- (b) Roman-Dutch Law.
- (c) English Law (excluding the Law of Real Property).
- (d) Private International Law.

Candidates are recommended to pay special attention to the decisions of leading cases in the English and South African Courts, so as to be prepared to discuss in their answers from a broad and general point of view the principles thereby established.

**TRANSVAAL LAW CERTIFICATE.**

As for the Cape Law Certificate.

**TRANSVAAL CIVIL SERVICE (LOWER) LAW  
EXAMINATION.**

As for the Cape Civil Service Higher Law Examination.

**ORANGE RIVER COLONY LAW CERTIFICATE  
EXAMINATION.**

As for the Cape Law Certificate.

**ORANGE RIVER COLONY CIVIL SERVICE (LOWER)  
LAW EXAMINATION.**

As for the Cape Civil Service (Lower) Law Examination.

**ORANGE RIVER COLONY CIVIL SERVICE (HIGHER)  
LAW EXAMINATION.**

As for the Final LL.B.

**NATAL LAW CERTIFICATE EXAMINATION.**

As for the Cape Law Certificate.

**NATAL ADVOCATES' PRELIMINARY EXAMINATION.**

The subjects for the examination are the same as for the Cape of Good Hope University Preliminary Examination for the degree of Bachelor of Laws.

**NATAL ADVOCATES' FINAL EXAMINATION.**

The Examination will be the same as the Final Examination for the degree of Bachelor of Laws of the Cape of Good Hope University, except that for Statute Law there will be substituted Natal Statute Law, and comparative law and practice of the Courts of South Africa administering Roman-Dutch Law.

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**Admission of Rhodesian Candidates to the Cape Civil Service Law Examinations.**

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Members of the Civil Service of Rhodesia will be admitted to the Cape Civil Service Law Examinations, if certified by the Chief Secretary, Salisbury, as fit and proper persons to be so admitted, and the names of the successful candidates will be published in a separate list in order of merit.

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**Admission of Bechuanaland Protectorate Candidates to the Cape Civil Service Law Examinations.**

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Officers in the public service of the Bechuanaland Protectorate will be admitted to the Cape Civil

Service Law Examinations, if certified by the Resident Commissioner as fit and proper persons to be so admitted.

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**Admission of Basutoland Candidates to the  
Cape Civil Service Law Examinations.**

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Officers in the Public Service of Basutoland will be admitted to the Cape Civil Service Law Examinations, if certified by the Resident Commissioner as fit and proper persons to be so admitted.

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**Drawing.**

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F. W. ARMSTRONG, A.R.C.A.

**FIRST MINING COURSE.**

GRAPHICS (One paper of six hours, in two parts).

(a) *Plane Geometry*: Proportional Division of the Straight Line; Making, figuring, and the use of Plain and Diagonal Scales; Construction of Triangles and Polygons from Adequate conditions of Sides, Angles Area or Perimeter. Properties of Circles, Arcs in contact and their tangents; Construction of the Ellipse, Parabola and Hyperbola; Variable quantities represented by Curves; Trigonometrical Ratios; Spirals and Logarithmic Curves; Areas, their Magnitudes as attained by Graphical Methods.

(b) *Projective Geometry* : Properties of Similar Figures ; Principles of Orthographic Projection and Definition of Terms in use ; Representation of Points, Lines, Planes and Solids in Space ; Projection of Plane Figures on Inclined Planes ; Projection of Regular Solids—Cube, Prism, Pyramid, Tetrahedron, Octahedron, Cylinder, Right Cone and Sphere resting on Inclined Planes and in given positions—on to the Standard Planes of Reference.

### SECOND MINING COURSE.

ENGINEERING DESIGN AND DRAWING. (One written paper. Time three hours. One paper—which may be set in two parts.—Time six to eight hours).

Freehand Sketching of Machine Details, with full working dimensions ; Tracing of Plans and Details ; Executing Working Drawings of Machine Details, with Inking, Colouring, Dimensioning, Titling and Finishing Drawings.

The Design of Simple Machine Parts, under Tension, Compression, and Shear, such as Bolts, Nuts and Rivets, Pipes and Pipe Connections, Pin ; Knuckle, Cotter and Riveted Joints.

Cams for Uniform Motion or Uniform Application of force to a Point or Roller moved along a Straight Line.

Details for a line of Shafting, such as Bearings, Brackets, Couplings, Plain and Stepped Pulleys.

Details of the Steam Engine, Pumps and Machine Tools.

The Slide-rule and Logarithmic table will be allowed in the examination.

Drawings on the work covered by the Syllabus must be submitted by each candidate at the examination (half to be inked in and generally finished, the remainder to be in pencil), the size to be at least equivalent to twelve half-imperial sheets. The drawings must be certified to be the candidates own work.

GRAPHICS. (One paper of six hours in two parts).

(a) *Plane Geometry* : Loci and Curves traced by points in Simple Link Mechanism ; Construction of Cycloid, Epicycloid, Hypocycloid and Brochoidal Curves ; Involute and Evolute ; Focal Properties and Graphical Developement of the Ellipse, Parabola and Hyperbola.

(b) *Projective Geometry* : Polar Projection ; Constructions of Sections of Conical and Cylindrical Surface, and of Services of Evolution ; Interpenetration of Solids ; Development of Surfaces ; Isometric Projection ; Horizontal Projection ; Perspective Geometry.

(c) *Graphical Calculus*: Multiplication, Division, Involution and Evolution of quantities; Geometry of Steps ; Addition of Vectors and Rotors ; Vector and Link Polygons; Application to Systems of forces and simple structures ; Moments and Couples ; Construction of Curves of bending moment and Shearing force; Centroids ; Second Moments and Plane Sections ; Contour Lines and Volumes; Logarithmic Slide Rules and Planimeters.

The use of the Planimeter will be allowed in the examination.

### **SURVEY DRAWING.**

#### **GEOMETRICAL DRAWING.**

Lines and Angles ; Proportional Division of the Straight Line ; Triangle ; Quadrilaterals ; Regular Polygons ; Scales, Plain, Diagonal, and Scale of Chords ; Circles in Contact and their Tangents ; Inscribed Rectilineal Figures; Areas of Plane Figures ; Plane Curves, their Tangents and Normals.

#### **ORTHOGRAPHIC PROJECTION.**

Points, Lines and Plane Figures; Simple Solids; Sections; Interpenetration of Solids.

#### **PLAN DRAWING.**

Copying of Plans ; Drawing of Plans from Original measurements; Lettering and Figuring.



## EXTENSION LECTURES.

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A Sub-Committee of the Senate has been appointed to deal with the subject of Extension Lectures, to be given in Grahamstown and elsewhere during vacations. Invitations to lecture will be welcomed by members of the College Staff. All enquiries on this subject should be addressed to the Secretary of the Senate.

## THE LIBRARY.

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Hon. Librarian : Professor W. A. MACFADYEN.

Library Assistant : Miss WINIFRED DAY.

Committee : Professor SCHWARZ.

Professor DUERDEN.

Professor EXHAM.

The Library had been increased to 5754 volumes on 26th July, 1909. The following figures show the growth in previous periods :—

July, 1905 ...	...	1300
January, 1st, 1906...	...	2491
June 30th, 1906 ...	...	3858
September 1st, 1906	...	4179
December 3rd, 1906	...	4284
May 31st, 1907 ...	...	4618
September 30th, 1907	...	5016
September 30th, 1908	...	5564
July 26th, 1909 ...	...	5754

Donations have been received :—

From Professor Matthews, 2 vols.

From Professor Parry, 4 vols.

From Longmans, Green & Co., 18 vols.

and continuations of previous donations from the Education Department, Capetown, and the Geological Surveys of India and the United Kingdom, for all of which the Library Committee express their grateful appreciation.

The Library is situated in the large room off the entrance hall, which serves both as Library and Reading-room, while certain portions of the scientific laboratories are specially equipped with technical libraries. The volumes are shelved in the sequence of the “Dewey” classification. The Library has three reading tables and affords accommodation for from 20 to 30 readers.

The card catalogue has been kept up to date, and takes account not only of all separate works, but by cross references indexes all important articles in periodical literature, essays and papers in collections, and thus shows at a glance what are the resources of the Library in any subject.

The following journals have been taken since Jan. 1st, 1909 :—

Mind (complete series from 1878) ; Philosophical Review ; American Journal of Psychology ; International Journal of Ethics ; Hibbert Journal ; Journal of Theological Studies ; Political Science Quarterly ; Law Quarterly ; Die Neueren Sprachen ; Literaturblatt für Germanische und Romanische Philologie ; Tijdschrift voor Nederlandsche Taal-en Letterkunde ; Nature ; Science Abstracts, A. Physics ; Science Abstracts, B. Electrical Engineering ; Philosophical Magazine ; Royal Society Proceedings, A. Mathematics and Physical Sciences ; Drude's Annalen der Physik ; Drude's Beiblätter ; Physical Review ; Royal Society Transactions: A. Mathematics and Physics ; Analyst ; Geological Magazine ; Centralblatt für Mineralogie, &c. ; Neues Jahrbuch für Mineralogie, &c. ; Journal of Geology ; Zeitschrift für Praktische Geologie ; Biological Bulletin ; Royal Society Proceedings, B. Biology ; Biologisches Centralblatt ; Royal Society Transactions, B. Biology ; New Phytologist ; Annals of Botany ; Just's Botanischer Jahresbericht ; American Naturalist ; Quarterly Journal of Experimental Zoology ; Journal of Royal Microscopical Society ; Zoologischer Jahresbericht ; Zoologischer Anzeiger ; Ohio Naturalist ; Zeitschrift für Französische Sprache und Litteratur ; Classical Review ; Classical Quarterly ; Bursian's Jahresbericht über die Fortschritte der Klassischen

Altertumswissenschaft ; English Historical Review ; American Historical Review ; Journal of Hellenic Studies ; American Journal of Archæology.

The Rules laid down by the Council for the management of the Library are as follows :—

1. No book shall be taken from the Library until a borrowing slip has been duly filled in, signed and handed to the Hon. Librarian, or member of the Staff in whose room the book is shelved.

Students desiring to borrow Library books shall be required to obtain them from the Library Assistant between the hours of 10 a.m. and 12.45 p.m.

Students will at the same time be entitled to receive back the cards signed by them for books returned.

2. All books shall be returned in 14 days, or, if required by another reader, within 7 days.

3. The borrower will be held responsible for the books as long as the borrowing slip remains uncanceled, and shall be accountable for loss or damage.

4. Any borrower who retains a book beyond the period prescribed in Rule 2 shall be liable to a fine of 1s. for every week or part of week for such detention.

5. No book shall be taken out of British South Africa without special leave.

6. Except when on charge to a Department, not more than 6 volumes shall be held at any one time by any professor, nor more than 3 volumes by any other reader.

7. Members of the general public will be permitted to use the Library for reference purposes, but may in no case remove books ; applications for permission should be addressed to the Hon. Librarian for reference to the Senate.

*Inspection.*—A general inspection of the Library is held annually, at a date of which notice is given. All books must be returned before inspection, or if required by the Librarian at any time.

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## GRAHAMSTOWN PUBLIC LIBRARY.

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On payment of an annual subscription of 7s. 6d. Students of this College are granted the privileges of Ordinary Subscribers. They are, however, not entitled to vote and have no access to the ordinary Subscribers Private Rooms.

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# College Societies, &c.

## THE RHODES UNIVERSITY COLLEGE DEBATING SOCIETY.

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1909.

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### OFFICERS.

*President:* PROFESSOR G. E. CORY.

*Vice-Presidents:* MESSRS. F. G. REYNOLDS, E. H. WILSON, C. N. THOMPSON, L. J. HODGES, MISS HOCKLY, MISS MACKINTOSH.

*Hon. Sec.:* MR. G. A. SUTHERLAND.

*Members of Committee :* MISS PIERS, MR. VARDER.

### RULES.

(1) That this Society be called "The Rhodes University College Debating Society."

(2) That all present students of the College be eligible as members.

(3) That the officers of the Society consist of a President, a number of Vice-Presidents, and a Secretary.

(4) That the debates be arranged and the affairs of the Society managed by a Committee, consisting

of the officers of the Society and four other members. Three of these to form a "quorum."

(5) That Officers and Committee be elected at the beginning of each year (February), *i.e.* at the Annual General Meeting. Such vacancies as may occur during the year to be filled up at the next general meeting.

(6) That voting for Officers and Committee be by ballot ; for debates by division, provided that no member be allowed to vote in a debate unless he has been present for what the Chairman considers a reasonable time during the debate.

(7) That the Chairman have a casting vote.

(8) That debates be on any subject not strictly theological, and that no theological topic or argument be introduced.

(9) That no one speak more than once in a debate, unless to explain his own words or to correct a misstatement of a fact, except that the opener of a debate shall have the privilege of speaking last.

(10) That the speeches of the opener and opposer be limited to twenty minutes, and of all others to fifteen minutes.

(11) That any member be allowed to introduce visitors to debates with the consent of an Officer of

the Society, such visitors not being allowed to speak without the consent of the Society.

(12) That in the absence of the President or Vice-Presidents at any meeting the members present elect a Chairman for that meeting.

(13) That the Chairman at any meeting have full authority in matters of order and interpretation of rules.

(14) That the Secretary keep, in a book set apart for the purpose, a list of members of the Society and minutes of meetings, the minutes of the previous meeting to be read and signed at the next meeting.

(15) That no alteration of the rules be made without notice being given by the Secretary at least fourteen days beforehand.

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## THE COLLEGE MAGAZINE.

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The first number of the College Magazine, under the title "The Rhodian," was issued in November, 1906. The subscription is one shilling per number.



## RHODES UNIVERSITY COLLEGE ATHLETIC UNION.

1909.

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### OFFICERS.

*President* : The Hon. JUSTICE KOTZE.

*Vice-Presidents* : The Rt. Hon. Dr. L. S. JAMESON, P.C.,  
F. GRAHAM, Esq., C.C. & R.M., Dr. J. B.  
GREATHEAD, E. G. GANE, Esq., D. I. CLARKE,  
Esq., L. L. GIDDY, Esq.

*Chairman of Committee* : Prof. A. S. KIDD.

*General Treasurer* : Prof. A. R. LORD.

*General Secretary* : C. N. THOMPSON.

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### RULES.

(1) That this Association be called "The Rhodes University College Athletic Union."

(2) That only members of the R U.C., whether Council, Staff, or Students, together with the President and Vice-Presidents of the Union, be eligible for membership of the Union.

(3) That the officers of this Union be a President, Vice-Presidents, and an Executive Committee consisting of a General Chairman, General Secretary,

General Treasurer, and the members of the Sub-Committees, viz. : one each for Cricket, Football, Tennis, and Athletic Sports, each such Sub-Committee to be composed of four members, of whom at least three shall be playing members in the particular branch of sport concerned.

(4) That the general management of the Union shall be in the hands of the Executive Committee, which shall have authority to delegate certain of its functions to the Sub-Committee for each particular branch of sport.

(5) That in meetings of the General Committee an attendance of half the members shall form a quorum.

(6) That the officers of the Union shall be elected at a General Meeting to be held in the month of February in each year, and shall hold office till their successors be elected. Vacancies shall be filled up at a General Meeting of which at least three days' notice shall be given.

(7) That the Captains of teams shall be elected by the members of the respective teams.

(8) That no alteration be made in these Rules except at a General Meeting, and seven days' notice of any such proposed alteration shall be given to the Secretary in writing for notification to members.

(9) That the control of the finances of the Union be exercised by the General Committee, which shall instruct the Treasurer how to apportion the revenue among the various Clubs and other interests as may from time to time seem good.

(10) That a certain number of Meetings of Committee annually shall be devoted to the discussion of Finance, as provided by Standing Orders.

(11) That the Treasurer shall present his complete Annual Accounts, duly audited, at the last Finance Meeting before the Christmas Vacation. Further that he shall submit a general estimate at the first Meeting for Finance after the Christmas Vacation. Further, that he shall from time to time present detailed accounts and submit estimates for the various branches of the Union.

(12) That each Sub-Committee shall submit to the Treasurer an estimate of probable requirements for the Term at least two full working days before the first Finance Meeting of each Term.

(13) That a Banking Account be opened, and that all cheques shall be signed by the Treasurer and countersigned by the Secretary.

(14) That the Subscription be 5s. per Term for each member, payable through the Registrar.

## RHODES UNIVERSITY COLLEGE STUDENTS' CHRISTIAN ASSOCIATION.

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1909.

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### OFFICERS.

*President* : Mr. G. A. SUTHERLAND.

*Vice-President* : Mr. F. H. BRITTEN.

*Honorary President* : Professor DINGEMANS.

*Recording Secretary* : Miss D. HOCKLY.

*Corresponding Secretary* : Mr. H. BÖHMKE.

*Treasurer* : Mr. R. W. VARDER.

The objects of this Association, which was founded in May, 1906, are :

1. To lead students to become disciples of Jesus Christ.

2. To deepen the spiritual life of students.

3. To enlist students in the work of propagating the Gospel through the world.

4. To encourage systematic Bible study.

The membership consists of Active and Associate members.

Active members are such as desire to conform to the aims and objects of the Association.

Any student may become an Associate member. Associate members are not entitled to vote.

The subscription of Active Membership is 5/- per annum.

The Association is entirely undenominational, and is affiliated to the South African Students' Christian Federation, which is a branch of the World's Students' Christian Federation.

The Association meets on Mondays, at 7 p.m., in the Church Parlour of Commemoration Church, for Bible study and the reading of works on the history of the Christian Church.

A general meeting open to all students of the Rhodes University College is held once every month, for the purpose of discussing some subject of religious, missionary, or social interest.

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## SUCCESSES OF STUDENTS AT UNIVERSITY EXAMINATIONS.

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### INTERMEDIATE EXAMINATION.

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1905. *Class I* : E. E. Smart (Miss) ; *Class II* : L. L. Britten (Miss), G. L. Friedlander (Miss), A. G. Leary (Miss), O. V. F. Sampson ; *Class III* : S. N. Cronje, M. J. Dennehy, E. J. Nangle.
1906. *Class I* : S. B. Hobson, E. H. Wilson, R. W. Varder ; *Class II* : W. E. Clark, J. H. Lowden, C. E. Nesor, F. G. Reynolds, E. A. Wollaston ; *Class III* : E. H. Beck, E. F. Mitchell (Miss), F. B. Mortimer (Miss), R. Widdicombe.
1907. *Class I* : G. A. Sutherland (1st place), G. A. A. Munscheid (Miss), G. F. P. Heathcote, A. L. Ferguson ; *Class II* : E. M. Britten (Miss), M. W. Lloyd (Miss), R. H. Pudney (Miss) ; *Class III* : F. H. Britten, L. R. Broster, R. V. De Villiers, L. J. Hodges, C. F. King, E. B. Lundie, L. C. Meyers, F. F. Philip (Miss), E. F. Radloff, H. Rogers, E. Sheard (Miss), V. R. Stewart, C. G. Verity.

1908. *Class I*: C. N. Thompson, G. H. Welsh, M. K. C. Macintosh; *Class II*: F. Charles (Miss), M. C. Du Toit (Miss), G. Friend (Miss), W. Graham (Miss), D. Hockly (Miss), J. G. Lawrie E. M. Piers (Miss), J. S. Pocock (Miss), C. M. H. Tooke; *Class III*: G. Fehrsen, E. George, G. M. Gough (Miss), T. D. Hall, J. Hawken, C. H. Hill, W. J. G. Mears, F. A. Parry (Miss), J. L. Payn, G. B. Purvis, H. Sampson, E. A. Stanton (Miss), M. E. Turner (Miss), W. D. Vardy, M. H. Wrensch (Miss).
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#### B.A. EXAMINATION.

1904. *Honours* (Mental and Moral Science): Mary Graham; *Pass* (Science): N. F. Stewart.
1905. *Pass* (Literature and Philosophy): G. N. Cross, A. G. Mullins.
1906. *Pass* (Science): G. F. Britten, J. Metcalf.
1907. *Honours* (Botany): Lilian Louise Britten; *Pass* (Literature and Philosophy): O. V. F. Sampson, Evelyn Eutricia Smart; (Science): T. G. W. Reinecke.

1908. *Honours* (Classics) : J. H. Lowden, S. B. Hobson ; (Mental and Moral Science) : F. G. Reynolds ; (Physics) : E. H. Wilson, (*First Place, Hiddingh Scholarship*) ; R. W. Varder ; *Pass* (Lit. and Philos.) : W. E. Clark, G. E. Du Toit, Alice Sarah Miller ; (Science) : G. J. C. Smyth, E. T. Varrie.
- 

#### M.A. EXAMINATION.

1908. *Part I.* (Classics) : Evelyn Entricia Smart.
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#### SURVEY EXAMINATION.

1904. L. J. Flanagan, G. L. C. Watermeyer, N. E. Beckman, A. O. Shoue, J. H. Steere, N. W. Jarvis, J. J. Gertenbach, H. P. Van Hees, K. W. J. Laurie, O. B. Reitz, O. Maasdorp, V. C. H. R. Brereton, G. L. Hugman, A. E. Friedlander, A. T. Rivett-Carnac.
1905. (*Old Regulations*) : J. C. Hayes, H. S. K. Simpson, A. C. Parry, H. T. Landers, W. Paul, B. A. Putterill, R. C. S. Booty, H. A. Dykerman, A. H. Peggs, E. M. Court, N. W. H. Birkett, W. R. Scott.
- (*New Regulations*) *Part I.* : H. E. C. Anderson, J. A. F. Dreyer, H. E. Evans, A. C. Gaylard.



1906. *Part II.* : A. C. Gaylard (first place), H. E. Evans, J. A. F. Dreyer, H. E. C. Anderson ; *Part I.* : J. D. L. Burke, H. Greathead, S. S. Loubser, D. L. Nicholas, A. G. Retief, B. G. Will.
1907. *Part II.* : B. G. Will, P. Gluck, H. M. Greathead ; *Part I.* : J. W. Hutchinson, F. W. J. Le Roex, S. L. Moorcroft, L. D. Osler, A. W. Shorten.
1908. *Part II.* : J. W. Hutchinson (first place), F. W. J. Le Roex, A. W. Troye, S. L. Moorcroft, A. G. Retief, A. W. Shorten, L. D. Osler ; *Part I.* : L. C. Wright.
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#### LAW EXAMINATIONS.

1905. *Preliminary LL.B.* : H. G. Rousseau, B.A. ; *Cape Law Certificate* : A. L. Turvey.
1906. *Final LL.B.*, H. G. Rousseau, B.A. ; *Preliminary LL.B.* : L. Ward, B.A., R. H. Walker, B.A., H. Sanders, B.A. ; *Cape Law Certificate* : C. B. Flanagan, T. C. Chowles, C. R. Atherstone, G. A. W. Head.
1907. *Final LL.B.* : A. S. Welsh, B.A. R. H. Walker, B.A., H. Sanders, B.A. ; *Cape Law Certificate* : T. B. Turner.
1908. *Final LL.B.* : L. Ward B.A. ; *Preliminary LL.B.* : F. B. Van der Riet, B.A.

# LIST OF STUDENTS.

## 1909.

M.A. (CLASSICS).		Lloyd, M. W. (Miss), East
Smart, E. E. (Miss), B. A.,		London
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B.A. (LITERATURE).		Philip, F. F. (Miss), Port
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Munscheid, G. A. A. (Miss),		Visser, W. A., Hanover
East London		JUNIORS.
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Phear, H. J., Kimberley		London
Sheard, E. (Miss),		Hawken, J., Grahamstown
Oudtshoorn		Payn, J. L., Transkei
Stewart, V. R., Cala.		Piers, E. M. (Miss), East
Verity, C. G., Grahamstown		London
JUNIORS.		Purvis, G. B., Grahamstown
Friend, G. (Miss), Port		Thompson, C. N., Transkei
Elizabeth		B.A. (MIXED A.)
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Hockly, D. (Miss), East		Hodges, L. J., Grahamstown
London		Mears, W. J. C., East
Macintosh, M. K. C., (Miss),		Griqualand
Port Elizabeth		Wrensch, M. H. (Miss),
Tooke, C. M. H., Grahams-		Oudtshoorn
town		B.A. (MIXED B.)
Sampson, H., Grahamstown		Hall, D. T., Lady Brand
Welsh, G., Transkei		INTERMEDIATE.
B.A. (SCIENCE).		Ayliff, J., Grahamstown
SENIORS.		Ayliff, J. M. (Miss),
Beck, E. A., Orange River		Grahamstown
Colony		Badenhorst, W. L.,
Britten, E. M. (Miss),		Worcester
Grahamstown		Blake, C., Burghersdorp
Heathcote, G. F., Grahams-		Bouwer, J. W., Commadagga
town		Brown, E. M., Vryburg
King, C. F., Uitenhage		Burt, M. C., Grahamstown

Crouch, H., East London	Norris, G. C., Port Elizabeth
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Egleton, M. (Miss), King-williamstown	Parker, H., Port Elizabeth
Evans, H. E., Natal	Phear, H. W., Kimberley
Fanner, C., Capetown	Rabie, J. S. V., Aberdeen
Franz, C. H., East London	Rowland, C. C., Dordrecht
Frielinghaus, F. V., Port Elizabeth	Scott, Q. L., Somerset East
Gaylard, M. (Miss), Transkei	Smart, S. W., Natal
Goldschmidt, L. B., Queens-town	Strydom, B. J., Willowmore
Green, H. N., Kimberley	Swemmer, C. E., Riebeck East
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Hacking, E. J., Fort Beaufort	Vercueil, B. M., King-williamstown
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Heydenrych, J. F., Jansen-ville	Whitehorn, B. C., Grahams-town
Hodgson, L. B. D., (Miss), Grahamstown	Whiteside, A. C. (Miss), Uitenhage
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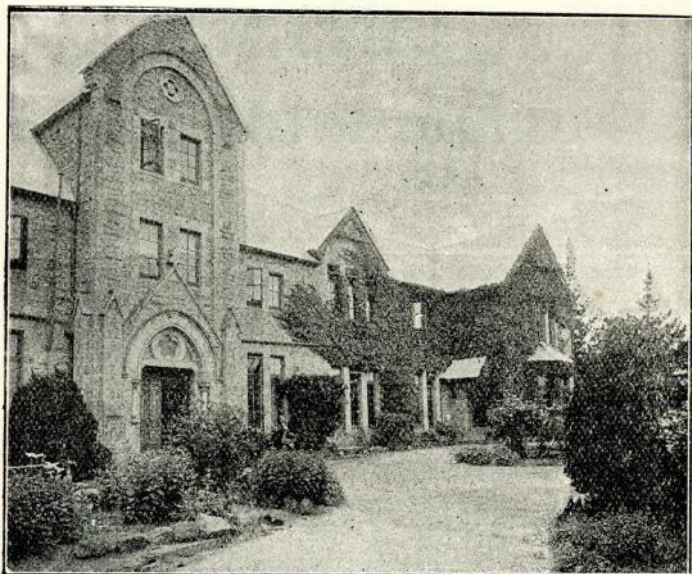
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