## CALENDAR

or

## DALHOUSIE COLLEGE AND UNIVERSITY.

HATIFAX, NOVA SOOTIA.

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FOUNDIND - - 18&%,
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1882-83.


IIATITEAK:
Enzazd pon tue Untvergity by Noya Sootla Pasyiso Co 1882.

Since the Calendar hae been printed, Mr. Munro has placed Dalhousie Collego under additional obligation by proviling an endowment for a Chair of English Litera. ture. Acting upen Mr. Munro's nomination the Governors have appointed De. J. Gouk Scharmen to this Chair, and have assoeinterl vith it tho antigeet of Motaphyvics. For particulars see stip opposite puge 蛋.

\section*{CONTENTSG.}

\section*{ERRATUM.}

Poge 54, zeron! hint from fooc of page, for "Gradmwed with Seeond Jank Honoun in Hibtory and Euglah Literawre," rand "Oradmatid with Eecond Ranl Hoaprat in Maftamaties and Flaysea,"
Act of Incorgoratien and Amendrients ..... Traz
kevent bempliczach ..... ?
Tiviveralta Calendar ..... 11
Goversors bil Benuth ..... 1.4
Fapalties of Arts and Sxhnee ..... It
EEGIHLRTIONS ..... 15
Sensinns ..... 15
Admbiaion at students
16
Matrienlatioy Juminatinn
14
14
Coarses of Stedy for B. ..... 73
Doamer of Stuiy for B. So.
20
20
Henant Pevime
Henant Pevime ..... 2
Firdyation ti Artsand Kelenot ..... 22
Regzlasinos for Brazionationa ..... 24
Ationdance ane Oondact ..... 26
24
Howo Exhtit ons and batumis
Howo Exhtit ons and batumis
29
29
 ..... 31
he Gymasaium ..... 31
Contwer of Tambires ..... 潼
Courses of Stady fer Horionra-Details ..... 27
Iima Table ..... 40
1.1578 ..... 42
Degrees sonferred, 1859
Degrees sonferred, 1859 ..... 4 ..... 4
Henours, Necals, Prizes, Chitificitsm of Merit, Exallutiong, Tikranviev, nwaviled 1 ह夕)-82 ..... 4.3
Erwminatione 1301-39 ..... 45
Henjurs, Didels, Prizen, Ixiliticns, Buriateq, Ss; 18is-8
Henjurs, Didels, Prizen, Ixiliticns, Buriateq, Ss; 18is-8 ..... 49 ..... 49
Gudaites anil Undergrainston of than Thisurkity, and Cieneral Buviests ..... 5
ALUMNI ASS0GIAT1ON ..... bi
KXAMIXAHOS PLPHES ..... (1)
Maun IallWtivas and Dessarion Janior. ..... 59)
Besional Exumiatiane ..... 64
Honotra is Clinvies ..... 102
107

\section*{ACT OF INCORPORATION}

\section*{A.SD \\ ACIS IN AMENDMENT.}
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An Aor for the regeltebion und support of Dellewsie
Colliege.
(ilimed the asth diy of A1rit, 4.7n. thate)

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Whereas it is expeliant to extend the basis on whick the ssid Callege is astahlishef, and to aiter the samstitation theren?, se ses the bonefits that neey be fairly axpeoted from ite invested eapital, and its cuntrul position man, if pousilie, to realiasi, and the design of its criginal founders, as noarly as may be, earied oul,

Bo it orasted by tho Covernor, Council and Aosemblr, na fellews:-
1. The Doand of Coverners new apoointal, consisting of the Honcrable Willimm Young the Honomble Joseph Hove, Carrlos Tupper, \& Teonand Shanmen, John W. Riteria, and Tumes F. Avory, Faquires, nkall be o boily politic and ospporate, by the name and style of the Governors or Dallousis College at Halifax, and ohal have and oxeccise all paud powers and authoritios as such, and lave the tite, control, and diopacition of the building ou the Parale at Hationa, ous of the poppoity and funds belonging to the sail Collegu, and hell for the ves theraof by the prosant Gavernors; and all varancios at the Poard chall ko filled up on recomizendation ot the remaining mern bese thereof by the Govecmor in Council ; and any of the Governors shall bo remerable by the Governor in Council, os the instauce of the Brand of Governors.
2. Whenever any bily o' Cliristinas of any religiaus perscarion whatsoever, ahall sstisly the Beand that thoy are in a cobilition to endow and suppont oze or more chairs or professorships in the enid Callege, for any bransh of itentare orecience. approved of ly the Doard, sach body in making auch oadowment
to the exdent of twelve 1 nuired dollas a Jear, shall have a righ: from time to time, for every choir endowed, to nominate a Gaveraer to take his eest at tho Poand, with the appreval of the Boaxd ot Goverrore and of the Gavernos in Comell, and ahill also have a right, from time to time, to nominato a Professor for such chnir, subject to the speroral of the Board of Coremors, and in the evont of the ceath, remoral or ruagnation of aly person nominated under this seation, the body nominuting shill have power to exply the vacancy tate crsated.
3. The ame right of powinating a Frofesere fron tive to time salll belong to ony ixdividual or number of individuals who siall eadow to tha same extent and surport a chair or proftacorshiz, and to the raninee of any leatater by whoso will a chalt or proftescrisitp may be so sulowel.
4. The Governors shall have power to appsint and to ditermine the dutice and salsties of the Preefident, Profosgors \({ }_{1}\) Lecturers, 'Tutors and sther oftioars of the Cellege, and fram time to time to mako statutas and beelawz for the xogulation ard managenent hyroof, and shall usocmblo tagother as offon us they siall think it, and uyon snch notice as to them dhatl seen meet for the execction of tha trust hereky repased in them.
5. Thesald College shall be coenel and takes to be n Universitr, with sll the uaual and necossary privileges of suah iretitution: and the atucentes shall hive liberty and faculty of twhing the iegroen of beckelor, maotor, and doctor, in the eororal ants and facaltes at the appolited times; and shall have liberty wiblin themselves of performing all scholas ic exarcires for the ocnforring of sach degrees, sind in such mances as shall be direstad by the statates and tye-lawa.
6. Ne religiens toite or suhcorptions chal he required of the profecoors, sobolate, Emidnotos, alulonte, or officurs of the College.
7. Thit filtemal rigalation of the ovid Ocllegs stall be commitred to the Senatus Acadenfous, formed by the respeetive chairs or professorshiys theres?, subject in all cises to the appsoral of the Covomore.
8. The Legingheme suall have pewer from time to tinfe to mocilfy axd control the pemarn confireol by this Aet,
9. The Acts heretofore paseed is relation to Dalhonsio Colkge are her by repealed, exapt the act paseed in the fcurth year of his inte Minjesty King Geurye the Fourth, eutilol, "Au Act anthenumg tae lenimg a sim of morey to the Govamors of Inlinonsie College, and for accuring therepayment theroof."

\section*{An Act to aner.d the Act for the regriationand suppert of Daitunasic College.} follews :-
L. The present Board of Govemors conalating of rine per sone, thall to increased to a number noc, exseeding fifteen, and the Board shall bo fillec cp by now mominations mode on the tams prinsiple is set forth in the finst masion o? the Act hereby nuerived, and any of the Covernocs stall be removable as hero totore by the Govemor in Council.
2. The Covernozs shall harn power to afflinto to Fialhousie College any othec colleges dosirous of sach affiation, or ony schools in arts, in sheslogy, it hiv or fin neliciue, and to mako atatitas for swoh affliations and for the regulation and mange most thesoof, on tho wane prinaiphe as oittin in athat wriveroilite, and to rory and areend ouch atabubos frcm timo to tize. Provided ulways, that such etatules of affliation, before thay g' into effect, shall le subritted to and receive the sanction of ths Gotemor in Council.
8. So mach of chspter 24 cf the Acts of 1863, entitled, "An Act for the reculution and cupport of Da housip Collere," or of any other Act, as is inconsistent wi h this Aot is repealed.

An Aot to provile for the orgenization of a Lave Faculty in oonnection with Dathousie College, and for oilier parposes.

Bis it eracted by the Governon, Council and Asscmbly, ws follows:-
1. The Governors of Dilhousle Callege at Hulifaz shall, in tddition to the powass mnforral an them by sscitan 2 of ohaptor 27 of the Aeto of 1875, ontitiod, "An Aet to amani, the Act for the regalation and sappors of Dalhousie Colloge" have power to orgatise of Faculty of Lew in conneerion with anci Collegen , and to appoint professors or loclurots in liw, ani out of the revonves of the College to provide for the maintenance and wappors of such facuity, and to make rulea for the roguiation and nakugoment of auch faculty, and for the grantligg of dagrees in lav on the same principles as obtain in othar unirazsitios, and to rary und smond such rules from time to time,
2. Section 3 of chapter 24 of the Acts of 1863 , entitiol, "An Aot for tho rygulation and oupport of Dalhouaio Colloge" is amendad by alling then words "and goverwor" after the vord "professor" in the said section, and any individual who las hitherto endowed a chair or chairs in the Colloge shall have a right to nominate a govimor for cach chair ondowod, in the sumb way as if section 3 aforosid had been origizally pased sa now amenled.
3. Scetion 1 of the said chaptor 97 of the Aste of 1875 , is ameuded by adding the womls "provided, lowaver, that in the event of any body of christins, Individual, or number of iadiridusls, endowing and supporting one or more chairs or pevfessorshipe in the satid College, 15 provididd by sectionas 9 ond 3 of the Act hecoly anconded, and of such buly of claistians or iadividuals nominaing a professor or goverume by virtue tharecf, the aumber of governcrs may by increased begond iftean, but groh incresse shall be limited to the nunber of such chairs of professorshipe as my sfter the passing of this Act bo founded by virtue of the suili ssotions 2 and 3 .

\section*{recent beneraciions.}

\section*{THE MUNRO FUNDS.}

Is 1879 , Gico. Muxies, Ese, of New York, 1 native of this 1'rovince, Ploced in the hands of the Govemors the funds novessary for the endowment of a Professorship of Phycicu. In 1851, he ettablished a Prefersorslip of History and Pclitical Econcmy. Siace 1880, he has provided the University with Exhilitions and Harsarios, to the amonat of \(8: 5,700\), vhinh, seoorving to his own detien, ase so owarded is to atimulate to greater activity and eflicericy the High Soliools and Acmiemies of Nora Scotin ast the neighbouring Provinces.

The Governors desire to place on permaneat record their high eane of Mr. Munro's anlightomed publie spirit, and thsir grutitude to hin for the moniffornt manver in which be hos cone fo their halp in the vork of building ap an ursectarian Univessity in Novs Seotia. To sounect tho denor's nane for all time vith the berafits thus conferned both on the Triversity and on his native sountry, the Governore havo decided that the chairs whieh he has founded shill be called the Grorar Numao Ghairs of Phisics and of Histom axd Pohrical Ecosomy rempectively,

\section*{ENDOVVMENT FUND.}


\section*{SGIENTIFIC APPARATUS FUND.}
\begin{tabular}{|c|c|}
\hline Hom. Sir Whitim Young &  \\
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\hline Hinh, deremith Noribip ........ 160 & A Fricmi \\
\hline Thos Jag oe....................... 100 & Thon A Eruwn \\
\hline Alsa. MoLed & Eison \& Cos \\
\hline Join MeNak.,................t.e... 109 & Jamien Th enmion \\
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\hline  & J. J. Fronthey \\
\hline  & Lewrony Marriugien \& Co \\
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\section*{UNIVEESTTY CALENDAR, 1889.83.}

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\section*{刃aflrousie trollege \＆i Clnibersity．}

\section*{BOARD OF COVERNORS．}
 IIga，Biat Cahiaso Tuaks，K．G．M．G．，C．D．，M．D．，M．ミ．
 Hon．S．L．Surisros，Q．e．，Judge ct Prebale．
Vaze Itev，G．M．Grask，D．D．，Principhl and Yion－Chancilloz，Qeech＇
Univerity，Kiugatw，Ont．
James P，Atert，Eeq．M．D．
Wricluy．J．Stames Fenc．Viab－Chancellor of the Thiversity of Halifax RuT Johs WanMizt an，M．A，E．1）．
Mev．Jowe Yannzsq．
Hov．Aramed G．Jormo．
Jome 自 Mazasar，Boz．
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Jums Doril，Esa．
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SENATE OF THE UNIVERSTY．

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Cuakiss Mapporaid，M．A．，Gompponding Secidery
Jour Joassox，N．A．
Gremer Lawson，Pe．D．，Lo．D．F．t．C．

Riv．Jowi Ponnaly，

\section*{FAOULTY OF ARTS.}

Terv Rier. Peinolpal Ross, D.D. Profienar of Fehion


Chakles Micpoyald, M.A. Aber.), Pripengr of Mfetenaties.
Joren Jousisos, M.A. (Duld), Prafezsor of Clastics.
 niel Minorolags:
 CFiory M ware Prybseo of Phyaic:
 Ecnowy.
Provsssar Lirceti, MA, (Vial), Tubir in Madom Largonges,

\section*{FACULTY OF SOIENOE.}

\section*{This Propgsagh of tie Facury of Arms, with}

Jivier Liricart, M A. (Vini), Proffonor of Madern Liangergyue.
 fand I Nicurctiogy.

\section*{REGULATIONS.}

\section*{§1. SESSIONS.}

In the readeanic jeir thene are two Sessions, o Winte: and a Summer Seasion.

The Wirter Session of \(188 \%-3\) will cemmence on MonilayOctaber 28xd, 1889, and ead on Wednesday, April 25th, 1883.

The Summer Shainon of 1883 will eormenes on Noainy; April 3cth, and ond on Juma 29th.

\section*{5.II-ADMISSIOA 02 SIUDENDS.}

Btrdents may enter the College, as Undergradutes, vith the intention of applying for a Univenity Degree in Arts or Seience at tho end of their couran ; or, os General Students, who do not look forward to a Uuiversily Degree.

The ortinary betroo for Undongradustoc in either Arto or Seisase uxbunds either oruc Sor Wintor Seasfons, or over three Wiatar Sescions vith the two interreaing Summer Sossinns The liftar altermtive is, boverer, conlingent on arragements to he mida ly the Govermark. Tudorminates talaing tither of these soarem are required to paes tha Matriealation Duamination for she Find Yesr, in Arts or Scimen, as the case may be, (sec §III.) and to take the classes prescribsd for their rospective contres.

Btucents may also comploto their couso in throo Winlese Bescicus without the intervaning Summec Seasions, ly pussiag thes Matriculation Examination for the Secend Icer in Arts or Ssionee, at thu case mey be, (see \& III) and taking the sanal undergraduate courne for the Second, Thirl and Fourth Yeava.

Tho Matrienlation Feminations will hegin this year on Obbber 24th, at 10 o'oloak, A. M. Candidaioa aro otpooted to kring their ovis writiog raxioxials, escept papors

Ganaral Studeate are nof required to pais a Natriculation. Kxaminstion, and nay attond swich clasees as thoy phoosc.

No persox on be admited as ant Lidergraduato after ten cays frum the opening of the clases, vithout the spocial pttमivsion of the Benatc.

Undergraluater from othrr Universities wil, on prolucing satisfactory entificetes be admitted to similar standing is this Uniransity, if, on exminetion, they be fonnd qualitied to unter the elusses proper th their year, Bot if their previons courses have not comsponied to tha couses on which they enter in this Collugg, they muy be ruquied by tho Sonate to tuke axtra dasape.

Stadente who haws raswed the Materierlation Feaminatien at the Univenity of Halifux, are admitted aa Undergriduatas vithout further examiation, axd Sinulents who have passed the first B. A. Examination of that Univeroily, sill bo almitted to tive skumbing of Unlergraduates ill Arts who have completed two Wintar Sessiona.

\section*{5 III-MATRIUULATIUN KXAMINATIONS,}

\section*{(A) IN ARTS.}

FOK THE MAST YHAR,
The Eraminationg cre partly oal and partly writen. The sutbjects for estrunes into the Frat Ycar of the coarse are :
L. In Crasercs-Lafin Gnmmar, Greek Geammar, one Latin sulject, one Grack subject. The folowing selbjecto sie recommended:
In Letin-Hor 1882: Oeser, Galle War, Bock VL; or Ovid, Metamorphises, Book I.
For 1889: Oceser, Gillic War, Bock V.; or Oid, Matarnomphosens, Prokt I.
In Greek-Foe 1882: Xexopion, Ansbaris, Bock III.
For 1883; Xoropiow, Anabasia, Book IV, cr Book V.

\footnotetext{
Intiad of the above, equicalents may be offfred. if they be not parts of
 Smato.
}
II. Liz Mammanios-Arilhwelic; Euclido Eloments of Ganitiry, Fonks \(T\) and \(I I\); Algelra,-Simple Riles, and Simple Equations of one unknown quantity, not involving Sards.
III. Is Exesist,-Grammar; History of Eingland; Geography; Compcestion.
Compelitors for Mano Eahibitions and Bursares, whea eamimations se approved by the Swnite, slull le exutuph frum furthar axamination for mitriculation.

FOL TIE 3ECOND THAR
1. Ir Crasorch, Tho uubjecta of tio Fint Your'a oounso ass specifert in \& XIV., or their equivalents, together with one allitional subject in Greek and ons in Latin (not being parts of the undergraluite course for the jear.)
II. Is Maramatics. - The subjects of the Fisst Yeary course as speciled in हु XIV.
11I. Is Exasisil,-The zabjocte of tha Matrioulation Exambnation for the First Year.
 equaifed in 8 IV. and XIV.

 the Semikall liciminationt of the lirst Yeir whall be axmps from furchet exambinstion in auk sulijecta.

\section*{(E) IN SCIENCE}
von timin nise risan.
I. In Marnemswes. - The enbjocta of the Matzionlation Examinction foe the First Ioar in Arth.
IL Ix Evense-The subjects of the Matrioulation Examination for the First Your in Arts.
TII. Is Tatix or Girman on Fresch :
Latin-The subjects of the Matrioniation Examination for the First Year in A-ts,
Gerneas-Adlet's Rewder, Pat I, Nos 1-1\%,
Aswaci.-Voltain'a Charles XTY, Book I.
Gramuntital quations in the Shuteru Ta ngrages lased upon 13. 1 maxageo polectod.

\section*{FOR TER SEJOND VEAR.}
I. Ix Mamemapios - Tle sibjects of the Fical Year'e courab ne spacifod in \& XIV.
II. Is Eveusit - The salijecta of the Matrinulation Examination for the Fint Year.
ITT. Ts Takiv or Gumis:
Latin,-The subjecte required for Matrionlation in tho Ssoond Year of the Arte Coursa
Gemmun.-Adler's Reader, Part II, first fiftean pieces. First twenty lassons in Otu"s Garman Grammat.
IV. In Isomoasic Cumastar.-The suljects of the Firet Yeat's Courac.

\section*{\$TV-CODRSES FOR DEQREE OF B. A.}
course op boER NISTM RESSLOES
Firut Tear--(1) Lalil.
(2) Greek.
(3) Muthernatico (4) Fingliah Language and Ractoric.

Second Yeor. - (1) Lain. (2) Greek: (3) Mathemaics (t) Inorganio Chemistay. (5) Logio and Psychology-

Thdergradutes of the Becond Yeur are regural to paienc examination
 Winlat Sration isie \} XIVi)

Thiot Pow,-(1) Latin. (2) Mathemation Phyniec (3) Rxperimental Physics, (4) Metaphyaics, (\$) and (B) Ayy two of tion following : Ereach, German, Creek

Tidergnulatian of the Thidd Year are roquised to pasanas crandatian In Grucian Hitery, und smiker Gesmaply on the recond Mondly of the


Foarth Fear.-(1) Latiu, (2) Fhicas. (3) Tolitical Eionemy, (4) Hiatoyy, (5) and (6) Ans two of the following: French, Cerman, Greck, Atronomy, Hobraw.

An endergualuste who teken a madera hagnago in the Thind Yase
 tis the Third Your canivi take if is the Fawibs.

Firat Winier.- (1) Latin. (2) Grech. (3) Muthemstion (4) Eaglish Lingmage and Literature.
frivt Sirnnar-(1) Latin asd Grek, or Mathemafica. (2) Frsich oe Formon (3) Eagtivh Iitenture
 but ie mind isfethe thim langrage Aeriag hots simmotic.
 (4) Inorgamic Chomisiry. (5) Logit and Paychulu:y.

Semani Simner:- (1) Axtrmburf, wa Intin und Greek. \({ }^{*}\) (4) Froogh or Gapman (3) Ethics (t) Political liconomy.

Thiod Whater. - (i) Tatin. (3) Metsphysics (3) Maftivmafical Phyiien. (1) Experimental Physice, (5) ard (6) Axy two of the followig : Frumet, Gerrant, Greek.

The trikias of this couns is ouatiageat ca arnargenemse te bs mode by the Goverzera.

\footnotetext{
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}

\section*{§Y.-COURSIES FOR DEGREE OF B.Se.}

\section*{COUHSE OF FOCE WITTER EESETONG.}
Firat Yeor- (1) Mathenatics,
(2) Inorganio Chemintry, (3) Englieh Lancuago and Rietorio.
(4) Latan or German.
if Gaman le theea the Fims Yone it mant be takna througbour tha
 two.

Scocul Yiar.- (1) Methemition. (2) Botany or Zosloge,.* (3) Orgnie Chemistey, (2) Latia of German, (5) Irencl. (G) Tither (A) Extra Mathematios anil Cheraical Tahoratory or (1) Cliemicul Laboratory (more extended conas).

Whthoune groap, ( 4 ) or ( \(\mathbf{E}\) ), Ix takoa in tio Sresail Yay mant be takets In зubsequini yrach.

Theod Jear- (1) Logic. (2) Latin or Germsn. (3) Tremeh. (4) Gealegy. (5) Msthnmitimal Phyaica (6) Eithar (A) Mathoinazice of (D) Ohemicol Laborabory.

Founth Yawn - (1) Iatin or German. (9) French, (\%) Esperimental Physise (4) Ceology: (5) Bither (1) Mathematice end Aatronony or (B) Organic Chemistry and CLemies Labonetory.

Prot Wenter- (1) Mathomatior (1) Taorgonio Chenietry, (3) Foplisi- Langugge and Rletoric (4) Latin or Germais.

If Cuman be talken the fint wintor suaba if nuly by tales biapurhect the course ; if Latin, Germus may be salatitited foc it in the thirc vinter actaion.

Forst Smavier-(1) Muthematics or Legte,* (5) Botany. (3) Ciormax. (4) Histologionl Laboratory.

Scocad Winter.- (1) Mathematics, (2) Zoologr, (5) Oyganic Clemistry. (4) Latin er Germian (5) Premoh. (6) Etther (A) Exta Mithemattes and Chemienl Labomary or (E) Chamisal Tahomatery (ixtanins?) or (C) Gienlogy and Ohemical Labonstory
 asat ko thes is xuburquaxt acosions.
 (2) German. (3) French. (4) Ether (4) Astronomy or (1) Clemioal Laboratory anl Biokogy (Eivid unc I-abatory work), or (C) Geollogy and Ridogy (Fleld, Mussum unid Iaboratory Woric).

\footnotetext{

}
 Mathomaticel Physics, (4) Exporiumat Plysiles (3) Fathie: (A) Mathemutios ma additional Mathematical Physics or (B) Organio Chenistry and Ohemioal Ialuratory, or (C) Gevology and Pislogical Iaboritory.

Tho falting of this oosme is contiogont in Armageregate to be exale by the Gevernocs.

\section*{6 VI,-H0NOUR OOURSES.}

Honour cournas are intended for Trilergnduites whose tistes and ability load them to proscoute spectul subjects of the Curiceluna; and remistious of claseas ane grantast to those btudying suifl coursos.

Honour Conrass am provided in the following departmonte: * (1) Clawies; (2) Mataemnios and Physiss; (3) Mental and Mornl Philoasphy ; (4) Hxperimental Phyrics and Cownitury ; (5) Hotany and Geoloas. Instruation of mn airvancel kind is provided in the first two and in the fourth of these demartnonto duing the third and fourth wioters of tion Currictlam. In the fifth depurtment zumme wark will ha proceribed.

Examinations in thooc ceurece are held at the flunl eximinations for Degrees; anil a strlent passing First or Second Clade in any of the above depariments obtains the Degree of Bachelor, with Pirst or Second Fank Honrurs in stich departmont. Hut Fint Raak Honours shall not be avanded to any one who has not pasved First Class in the carpopanding subjocto of the Orlinary Courso of the Fourth Yaar ; ror Stoond Rank Hozoura to ane tho hes net paseod Second Clasu in the Orlinsry Ccurse.

Studente studying for Honours nust attend the Honour Tetmes of their respective coursas, and their progrea mint be satisfactory to their Prffessors. Students who fatend to tako the Fomerer Covsan in Mantel ary Masal Philosophy azuet givo noties of theis intimition to tae Scanctary of Semite kefore the close of tho lectarea of their Thind Yna:

No studect will be allowad to, anter on an Honour Ccures who has not ttood in the Finet of Sceond Clane at the prexious examinusion in the corresponding part of the Ordinary Couree

A otudent taking an Hewour Cuars, Lut filting to ot taln Hoaocrs, will receive an Ondinary Degree, if his examination in the couns bo approved.

An Undengraduste in Aris, stedyigs for Honours in Classics runy in the Third Yeak vail suy tho and in the Fourth Tear any one of the ordinary subjicts of the year, provided they are not in immediate conuection whla hia Fonorr Course.
- For cotrate ufenbivite ieu IXYIL

An Undorgraducto in Ares eftulying for Honours in Mnthematias and Phycios, may in tho Third and Fourth Yers onit any bro of tho oubjecte of those yours, provivid thay am not in inmediats conncetion with hie Honour Couras.

Ln Undergmaliuto in Arta, atudying for Hononrs in Mertal and Moril Philonaply, may in the Fourth Year anit sny one of the ouljocte of tha y your oxospt Lethion
A) Undergmanto in Scieace, studying for Honoum in Mathematies inal Plyynics, or in Experimantal Phyioa and Chenistry, may in the Third and Fourth Yesrs omil any one of the sulfeects of thaso years, provided they noo not is limeosdiste connoction with hia Honours Couse, and may take the Mapusimeutal Phyoiso clane in tho Thiel Yeay isatead of the Fouth.
is canlilata for Honcars nay defor his Eonours exominntion untila yeur aftar he has passol the Ordinary examinationa in the necoanry auljoas of the Fouth Year. But ho shall net be ontitied to the digree of Facheor uatil he has passed the Hansass examinative.

\section*{§ VII,-PEES.}

The clase foo to cash Profesor or Lattum is aix dallans for tho Winter Socuion, and three dollars for tha Summer Sessenn.
in Undergraduate in Arts perys only cue foe during the Wintor Soesionie of hie anmmen to the Pmfresors of Legio. Plysices, and Hiatory and Politioal Eoonomy, and to the Tutor in Mocorn Tangunger

An Undergradunte who his complated two years of his conre in thin Inivareity, mary attond the Chasties ani Mathemative doring tho remaining Winter Seselons of hit Unlergradunts courso without the prymant af afditional fees.

An Uudergndate in Science pars daring the Wiater Sesaions of his coume conly ono dase foe to thi Protessor of Physics, and oaly two chas feas to the Professors of Chemisiry, Biologinol Sciomos, and Modem Largungez

A fee of siad doidare is charged foe orery throe months of pruciteal worl tie the Chicuicel Lajoratory, lut Undongraduate in Science pay ere fee of sixs dollars for thas Session. Studonter tukiug thisclas ise required to provido their own materals, Which, if they wish, will be supplifed to them at first cost. The uee of the largor articlon of sppentus will bo given in thin Laborutory frob of cxpense, ard students will be charged vith brodinge

General Studenss pay a foo for every alsas they nttand, and Undergralaaks taling daceen in addition to the Proserited Gurloulum jay adlitional fass.

In adilition to the dase foe, there is a matricalation foe
 General Stadents pay a sossional nogistration foe of one dollas.

Both Undergraluates anil Genamil Scudants aro requimel, at tho beginaing of oech Winter Sescion to puy a Libary foo of cne rollar. Undergraduates amed General Stadents attending norv classes than one are requited to pay a Gynnaium fee of aic dollar, at the legianing of each Eestion.

Máritubision or registratot tikets, and class teckets, must Be thkor out bofore attonding leeturoo, ne atedonto baing allowid to enter a clasa without them,

Thas total fons of Undergtadatees who thete the course of for Winter Bussions in Arts, are is follows:-


The tetal fees of Jndergmituates in Scierce depend upon the course which they tuke,

\section*{8 VIIL-GRADUATION.}

DENGRER OIF E. A. ANT H. PC,
The Dogrves of Bachelor of Arts and hechelor ol' Bcience nay be oltained by pusalig the proper Matriculation Examiuation, attending the proseribed soarses of ketures, and pacsing the Sesional exnminations of the several yems. Undergridmates in Arta have also to puss the Eutrince Examinatijus of the Seoved and Third Kears, as mentioned in \& IV,

The feo for the Diploma, payable belore ths Rinal Sessional Axamiation, is fied dellirs the lio is seturnol in case of Rillure at the oxuminntion.

\section*{DEGEER OF \(\mathrm{M} . \mathrm{A}\).}
A. Bachelar of Art, of as lenst thime years' standing, mainteining mmanthilo a good epputation, sall be eutited to the Degice of Master of Afts, on producing a sxififuctory thesis on some litenary, philosphical of stientifo subject, presionsly approved by the Sonat.

Pee for Diploms, whith mnst scompynay the theais, thevily dallore. Thens to bo buaded in on or before the let Mirch. The feo is returned if the thesis is not sustaned.

\section*{S IX.-RBGILLATTONS FOR RXANINATTONS.}
1. If any Undergraduate absoat linnsell from uny Univereity examination, except from stch curse as may be holl good by the Semate, he sliall Jose his session.

2 If any Undergmentuate fall to pass in any aubjeot at tho Sosaional Examinationv, lo will to ellowed is Smprlerentary Exaninition or tho tiret Thedlay of tho following Winter Ber sion, of of a subssquent Winter Session, on giving notice to the Sucretary of the Sente at least one week before the cpering of auch Stession; bat friiure in nore thisn two subjects at tha Bisabnal Eximinitions will involve the bise of tho Sreaion. A seorrd Supleamentary Eraminalion in tho oome Beosion in any subjeet of the Sessional Eirminations will rot be allowel.

3 In the oale of o etadont haring to thee a Bciaion over again, the Serato may remit sttendiner on claswas the examinations of which he has alrealy pased with evelit.

4 An Undergmadrate whio, at the end of the firat pear of the Fout Yeums' counse, failo in more than two ot biscts, chall nod be disqualtied by Rule 2 from preesiting himatif foc matricu1ation into the Throe Winiers' coirie, proviiked hegive a werk's nution to the Seerstary of the Scrats before the oponirg of tho Winter Session.
5. In all ensas, a stwient who preaste himbelf for Supplenuntucy Eramination on azy day exarint that speceilied in Juale 2, will bo required to pay an extrat foc of tiov dollars.

6 Undengradater in Arts of the Second and Thind Fears who fail to prosent themedves for the Entrance Pxaminations in Aaciont Hastory and Grognaphy on the seeond Vonday of the Wiiler Beasiell may, on payment of a me of the collare, ard on giving notion to the Smentaty of tho Sonate at or immedintoly dfter the opening of the Winter Sresion, have umothur day oppointod them for such examizatious.

7 Stondeats are forbididen to bring any book or menmecriph into the Examination Eall, unlese ty dirostion of the Examince, or to give or neceiro absatance, is to hold any comixuncation with ono anothor at tio oximinations. If a student violate this rulo ho olall leor his Atesiounl Zxumituations for the year ; and \(i\) slall be at the discention of the Senato whether lue be allowed Supplementary Exaninatione.
8. Studezto who puos the examinations in the revenal sulbjects of the ruppetive years ure arranged in three dasees, First Class, Seoond Clus sund Praxil, nimosising to tho morit of their answers in these sabjects.

\section*{\& K - ATHENDANJB AND CONDUGL,}
 macre ulasess tian one, excopt euch ws may beejeoidly cacmptod Ly the Semaie, afe requirod to provide thonselves with cajs and gowna, and to appar in nendemio costrims at Lectures, anl as all minetryer cé tah limivataty.
2. Profersors will mark tio prasence or absencs of Stulents immodiafoly lefoce conmoaciag the work of the cliss, and vill note as shemt thasa who enter thereatior, inless sitiffrcory reations bo ass.gned.
8. Absence rithont sufloiarb exvuse, or lateaess of inattention, ox disorder in tha clats romm, If perisistid in sfiep fite aluonition by the Profissoc, will ke reperted to the Suaks
4. The amozat of closence whioh shall dioqualify for the keeping of a Boasion will xedeternined ly the Beante.
5. Injuran to tha bailciag or farniturn will he menimel a: the expenso of the persen or poreons by vham they hiro been exised, and such othac peralt/ will ke imposel as the Senate zany think proper.
6. Lny improper conciuet on the purt of a otadent, whether in the Cellege or elaswhere, nay sibjeet him to tho cennurs of the Sumele; and the Senals une flus, repirmand (eiber privatey or in the prosuce of the Stadents), report to the parente or guardizns, lise ualify foc corppting for Pries or for halding Cortifictas of Masit, or nopors to the Govemors for ouspeasion or aypulation
7. Etaients not resiling with purents cr raudinas must report to the Principal their piaces of readidencs and the ohurches thiny pmosise to attent, within cne week efter tivir entaring Collme. The Princigal may disalow auch rosideace if he see goed ewnec. Any olinage of rosidances metet ales he raparted. Persins vith rhicm such atulente propece to mico nus furaisl: the Princifal wita antiofostory relerenose

\section*{6 XI-MONRO EXIIBITIONS AND BURSARIES.}

\section*{13 TIII PACULET OF Aneg,}

The follovin: Exhithitione and Dasarics any efferel by George Mulirs, Hikq, of New Yoth, for competition at the combtencempert of tix Winter Bestines of 1833-9, 1383.4, 18e4-5 :


The Fththitions and the Saunn Sunion Briraariea (IRR2) anm eate of the valus of \(\$ 900\) pur aiaun; the other Bursarios ane ask of the valat of 9150 Fec avaum. Both Exhibitiona and Bursariss ars temable for twe years.
cossprtioss or eoserxinitor.
1. The Junior Exhificitione and Bunocrico nes offint fir compotition (us Iimitad ly enotiucus 4 und 6) to vandidatan for matrioclation in Arts, 1 rovided thor haro propionely neither matricclated" at any Univeraity conforring Degroes in Arts, nce appsared ou candidates for these Extibitions cud Burkaries mose then ones.
9. The Smior Exhilitans and Burearise are offered for competition to Undsrgoduates entering the Thind year of the data neurses. Candidates must hrye conpletad bwo and valy two years of their coursa in Arts either at this or some other University, t and must have nateloulstad within thres acalemic yeate of the date of oompetition. Candidatas from other Unversities must comply with the conditions of § II.
3. Tho Ewlibitious are open to all cardilake astiofyino the coaditions of sections 1 and 2.
4. The Burraris (the seven Senior Dursaries of 1892 exsopled) are limited to canilidstes from the undementioned cistrieta, asonviing in tha following anhame:
Four Darsutiva to Distri:6 Nu, 1, umprising the Cvmatica of Halifax, ColsLestor, Pictou and Yameoth.
Tre Purarics bo Distcict No 2, comprising the remxining Conntips of Novi sentia pmper.
One Bursary to Distriet No. 3, vis,: the Island of Cape Breton.
Two Firaries to Fistrict No 4, vis. : Prima Fixwani Tsiand. One Burary to Districe No 5, ves : New Dexaswick.

\footnotetext{

 Thitativit 4 imes at thile Intrones.


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5. The district under which a candifate competes shall le determined either by the locality of the last school or acaderoy* whioh he lias attended for one school or acodemie year within the two calendor years immediately proeeding (for Jusior Exhibitions and Bursariee) the date of the competition, (fer Senion Laxhibitione and Bursarics) the dato of his matriecthtion; or in the event of his not having aticuided for a scheol or academic year any zchool or academy within these two years, by hif permanemt or ustal residence praviously to matricalation.
6. The Seses Senior Bursarice of 1882 are limited to candidates from the following districte, to euch of which one Burary is allolted.
No. 1.-The Istand of Cape Bretor.
No. 2.-The Countios of Piotou, Antigoniah and Guysboro'.
No. 2.-The Ceuntiss of Colchester, Cumberhad and Hanta
No, 4.-The Counties of Halifiz, Lusenburg and Kinge
No. 5.-The Connties of Annapolis, Digby, Yarmouth, Shelbarne and Queens.
No. 6,-Now Brunswick.
No. 7.-Prince EAward Island.

\section*{condmioys oy tesurs}
7.-The Jwaior Eddabitions and Derearits shall be hold during tro years, provided the holder (a) attend in consecutire years the classes proper to the first and second years of the Four Yeans Arts Course to the satisfiction of the Semate, (0) whew specin proficiency in st lesat two \(t\) of the snbjects of examination at the ond of the first yoar, beaides pasaing in the others, and ( \(c\) ) pees cither the entranoe and Secsional lixaminaticas or the Supplementary Examinations of the second year.
8. The Senfor Ralibitions and Burparies shall be held during the third and fourth years of the Arts comrse on conditions similar to those for Junior Exhibitione and Barmaries. But in the case of an Undergradunta studying for Honours in any department, the favcrablo roport of the Prefeasor or Professores in that depariment on his Hoseurs work in the Thind Year shall be considered equivalent to special profiency in one of the two suljects mentioned in section 7.

\footnotetext{
* Collagenot havieg tairentity powers shalt, for the garpoecs of this rube, be convidered a ichoct or arsilemy.
if For the purposes of thls cosdilSon Nathemisties shall be melloned al two troljoint.
}

\section*{GENERAL RESUESTIOKB.}
9. The ammul amounts of tha above Exhibitions and Bursaries vill be paid in thres instalments, the first on the first Monday affer the opening of the classes, the second on the fist Monday after the Christmas vacation, and the third on the day of the Spring Convecation, the payment of osch initalmont bsing dopondont upon the fulfilment of the conditione of tenuro at the dato at which it becomes duk,
10. Candidater are required to make application for the above Fxhibitions and Bursaries by means of a printed form, to bo obtained from the Priscipal, which muat bs fillad up and petarned to him with the recessary certificitas, at lenst one fortnight before the date of the competition,-this year, on or before Octeber 9th.
11. A certain standand of anawering at tho Eraminations, fixed by tho Senate, will be required for obluiniag any of the above Exhilitions or Bursaries. A higher standand will be required for Exhibitions than for Bursaries.
12. Tho Senate shall have in all cases the righs of deciding ts to tho folfilment of the above rales and conditions.
13. The Examinations for the Krhibitions and Bursarica Which are offered for 1882 will begin on October 23 xd .

\section*{benmbers of mamisation.}
14. The sabjeots of oximination foc the Juitior Exhilitions and Burzariea in 1882 shall be as follows:-
Is Larix.-Cesar, Gallic War, Book VI.; Oedd, Metamorphosus, Book I. Grummar: Accidence, Syntax, Prosody, Scansion of Hexamatur Vasse Text Boak; Suith's Swaller Latin Grammar or Bryco's.
Composition: Bnys aentences to be trunslated into Latin. Taot Book': Smith's Principia Lation, Part IV. Exs 1-35.
Is Gekek,-Xemplum, Aubasis, Books III. and IV. Grummart: Accidence (omitting accentuation), chitef rules of Syntar. Teat Boole: Hadley's Elaments of Greek Gram mar.
Is Mammamics-Arithmetic: the ordinary meles of arithmotic, Vulgar and Decimal Fractions, Proportion and Inlerest Algetra : as far as Simplo Equations and Surds, with Theory of Indices Geometry: First, Second and Thind Books of Euclid or the subjects thersof.
Is Evelush-Grammar, Anslysis, Outlines of Engliah and Canadian History and Geaemal Geograply.
The relative values of these subjects shall bo as follows: Classles, 200 ; Mathematics, 200 ; Englieh, 100.
15. Ths oabjocte of examinstion for the Soven Sevier Bursuries of 1882 and for the Senior EL-hibiaions und Burserise of 1883 sinll bo an follows:-

\section*{Chanice}
L.rins : Horace, Cdes, Booke III., IV.; Lìy, Book XXI. Composition: An casy English passsge on some - olesscil subject to be tursed ints Latin proso, Feet Book: Snith'e Priccipia Lation, Paris IV, and V.
Grerr: Xeaophcr, Hellanies, Boak 1 ; Dsmoalhenes, the Olyathans Compesition: Tort Boni-Sunih's Initia Green, Part III.
Clacoioar Hrutomy amm Gzoonatime : Hisiony of Greoan to death of Alexandar; Geogriphy of Grucic, Asias. Peod Bechis Smith's Stadenta' Greese; 'Tuser's Primes of Chatical Geography.

\section*{Mamexatices.}

Acamba: Alegebric Proportion and Variation Permintiona ani Comhinatians. Conpound Trtenest and Anruities, Sinila and Quadratic Equations. Tha properties and nes of Ingarithme.
Gzomemar: Tho rolationa of Similar Figurah Tho Elerenth Bcok of Eucid to Prop. 21, or the subjects theroof. The Manamation of the Simplar Plane and Solid Figures, inolvding the Cylizder and the Cone.
Pasye Thicompamer: The solution of the varions ceser of Plue Trianglea. The generat values of the Trigonometrisul Functions of argles. The Frinetions of the sum anl of the difforence of two or mare angles, and of multiplos anglos. Tho rolotions of the ainglos, sxa, tiactibed and cironmacribed circles of a triangle to the sices of the triengle.

\section*{Tagic on Exalish Litmature}

Loanc: Sir Wai. Hanillon'a Lostures on Lgito. Eamocmatio : the Deetrins of Conoopta. Apophantios tho Dretrias of Judgmenta. Tho Dectrinc of Reecoringax syilog ionas: thair Divicione assording to internal form, their Divinions asocrding to exteranal form, Resoning in Canprcheasion, and Reasoning in Eateasion. Fallawies.
Exgusa Lumbavvre: Spulser's "Tavrie Queane", lat Book; Six Cautuo. Shaksopocare. "Ao you like it," "Richard II," "Kiag Lear," The principal mitero of the Augwase Age.

\section*{INOHALYIC CHMMSTRT OR BOTLES.}

Iromasite Chimbativ: Affinity. Definito Proportions by weighs. Kquivalente Vclumetric Propartions. Alonic Theory. Non-motallic Elemonts (exoept I, So and D), their disaribution in nalaro, prepamation, propertive, their oxides, ecide or other compounde of thearelical inpertancs. The Metals, goncral clenieal character and clandif. ention Conctitution of Salts. Details relating to the following Motals to far as sogards thair modo of cocar roneo in matura, thair oxidon and most inporlant asite, and cocamon prosoeses and manufactuccs illustanting their chamical sharactors: \(-\mathrm{K}, \mathrm{Na}, \mathrm{Ba} \mathrm{Ca}, \mathrm{Mg} \mathrm{Al}\), \(\mathrm{Fo}, \mathrm{Zn}, \mathrm{Mn}, \mathrm{Cr}, \mathrm{Bt}, \mathrm{Sn}, \mathrm{Pb}, \mathrm{Cr}, \mathrm{Hg}_{1}, \mathrm{Ag}, \mathrm{Av}_{1} \mathrm{Pt}\) Reas tione aro roquirod to be given in form of ehomioal equation.
Borasy: Tho Cell, ite struotire, coatents and development. Tissues, Exteral confornation of Plants. The Axis, Leaves, structure, functions, prineipel forns and modifications in form in the prinetipal famlios of pante Roprolustive procose in torrering planite The Truit, mophology, principal modifisations, Tho Seed, embryo Eeproluazion of Feras, Masses, Alges, Fungi. General principles of hie Daural System of Classincation, with examiles of the priaclpal civistons. Eetails of atrictaite, relations, and geograplical distribusion in Worth Ametiza of the followigg orders:-Rununculvetw,

 lariwee, Unbill fere, Chachonaneis, Conpusike, Erisacte, Gonvilvalaceas, Bxaginacese, Sclanaces, Chenopocliware,
 daceso, Liliacoes, Orparavees, Sraminees, Folypodinoees.

Tho selative valuas of tho aboro subjosta ehail bo as followe : - Olassics, 200 ; Matiomatice, 200 ; Legis or Engliah Litorature, 150 ; Chernistry or Rotany, 150.

\section*{\$ XII.-MEDALS, PRIZES AND CERTIPIOATES OF MERRT}

\section*{MEDATA.}

The Goymaxol-Gespeal's Goin Mrdatit
Thin medal shall be avraried to the Endergreduete starding bigheat ano.org those taking Honours in tis departmeat of Classies, the winner of the Sie milism Tong Milal seing excluded.

\section*{Tie Sir Whinur Yotso Gold Madal.}

This medal ahall bo awarded to the Undergredanto atanding highest among those saking Honours in the departwent of Mnthematics and Physies, the winnor of the Govemor-Geneal's Gold Medal being exoludel.

\section*{}

Thio nardal shull bo swarded to the Undergrad ante standing highest among those takizg Honours in ons of the following departmonts, riz: 11) Experimental Plysiss and Chemistry, and (2), Botany and Gsology, in this order of preferonse, tho winaer of a geld niedal being exololod. If there abould bo no cuudldate for Hobours in cither of these departmenti, it shal ke gires to the Undergraduate standing pext the gidd medallist in any deparment of Honcurs in the ondor of prefornnce in wlich these departments are enumerated in § VL.

\section*{HRI2GH25.}
(The Senate reserves to itsell tie right of wilhtolding Prizes anil Duracries, niless suglewnt marric de sticion)

\section*{Tan Tyivynsity Pairno.}

These Prizs will be awarded to those Sfudents vho stand first in thio several suljejets at the Sensional Fixaminations.

No Studert wil be allowed to hold o Prize more than onea in the same clises

\section*{The St Andrew's Cevrd Phze}

This Prizo will be awarded this year to the Undengradath wio shall stand first in Classies at the Sessional Pxaminations of the second Year, the winner of the Warerley Pizs being excladed.

\section*{North Pritish Sociemt Priratht.}

A Bursary, of the innazl val in of \(\$ 60\), las bnen foundel in connaction with Dalhonsie College by the North British Society of Halifax, to be compoted for at the Sosioral Eximiantions o: the Seoond Yearia Coume in Arie, and beld by the succoafal competitor for two yeass, namely, daring the Thind and Fourlh Yoars of the Undergraduate Cormo in Avts. Carclidhtes murs he Undergeadnates whe have enmpletar two gears of tha Carricolun, and nust be eligible, at the proper age, to by members of the North British Socioty. The noxt ocmpetition will take place in April, 1884, at the Sessicnal Examinations Is awarding tive Bursury, Clissics, Mathematica, and Chemistry will be reokonod oach 150 ; Logie, 100.

\section*{The Wavkeagy Paizr.}

Thia Prias the intemat of an axdowmant of \(\$ 1000\), (which comee in the placs of the Wavcree Bursary) vill be ararded to the Student of the Scoond Matarmatical Class who stande highast at the Sessioml Examinations in the Mathomatios of the year, the nirnet of ths North Brikish Scciely Bursary being osol sded. Tho first annml canpatitinn will take plica at the Seessional Esemination in April, 1883.

\section*{The Dz. Aveay Prizs}

A Prize of the value of \(\$ 25\) is ollered by Dr. Avery for competition ti the Undergradustes in Ars of the Fourth Yeas, vho are not stailying for Honouns. It will lo awseled to the Etucens who atands higheat at the Seosional Erominationik

CERTIFICATES OF MBEIT.
Certifisates of Marit of the First or Sacond Rank will be given to Studenta who laye scspectively obthined a First or Second Class standing in the aggregata of the keunchas of suudy Iroper to any one jeat.

\section*{\& XIIL-THE LIBRART.}

All Studentrare entitied to the ueo of the Lilvary on paynent of the Seasional fee of one dollar. A Student muet deporit two dolare with the Tibratian before ho can take boeks out. When all such books are reterne1, this deposi will heo repail. The Library cleses on tha 90th April All books nuet ba retwened on ar befoes that dite Studints who fail to comply with this rulo will forfeit balf the amount \(\alpha\) tteir depodit. No Student can lave bis attemlance and examination certifieates signed until he raturns the books he lias taten out.

Griduates and menbers of the Alumni Aseociation are also entiled to the use of the Library, and may tako booko onf on maling the above dapuat with the Librarian.

\section*{§ XIY.-THE GKMNASIUM.}

All stndents, grad sates and menkers of the Alumni Association who pay the Sossional foe of one dollar, anl agree to comply with the regchationg are entilled to the nee of the Gymmasium. This foo entillos abudoats to inetruntion in Cyranastios aleo. It the classss are not soo full, graduates and membere of the Almmi Asscciation may be adnitied to them on payuent of a fee of tored dollars. The Gyanainm will be uniter the cantrol of a Conmitteo of Students whe will ke responsible for tire sarying oub of the regulotiono.

\section*{§XV.-ORDINARY COURSES OF LEOTURES.}

\section*{CLAASSICS.}

IATIN

> Fingt Year-Cicm; Pre Milone; *Pro Lege Matilia.
> Virgil : Fiologies.
> omprition: Smah's Principh Latins, Part IV., (sbeond half).
> Sxcord Ysak- Horwa; Odes, Book I; *Odos, Books III, IV.
> Compostion: Snith's Principfs Latiss, Pats IV., V.
t,Tump AxD Foonmir Yrait-Hapoce: Saures, Book L, 1, 3, 4, 3, 6, 3 . Book II., 4, \(0,7,8\).
Thrithes: Annals, Book I
Connosition: Eraith's Principia Latira, Part V.
Phíhogy : Peilo's Primer of Companative Philology.

\section*{GREFK.}

\section*{Finet Isall-Lecian ; Solect Dinlogush.}
*Kesoplon: Cyncpardia Book I.
Gromiart: Hadley' ' Eloments of Greel Granma:
§lcoso Yeak- Xenephan: Merorabilia, Boek IIL.
Hower : Odyasog Book IX.
Compesition: Smith's Iatia Gracta, Part III.
 Sopeoder: Aatigone.
Conpasitica : Saith's Iaitia Graca, Fart III.
+CLASSICAT HSTORY AND OECGRAPIY.

\section*{EnCencl T3AR.}

IHatery of Rome to R.C. 31 G Gographr of Italia, Sicilif, Gallis, Hispania.

Tinxw rein.
Hierony of Greece to the doath of Alexandor. Gesgraghy of Grweis, Asio, Africa.

Bionker recommended t Liddell's Students' Historr, of Nome; Brnith's Studens' or Cox's History of Greece; Pillans' Classical Oeography, er Toser's Frimse.

\footnotetext{
 araminod in this odd toonal nubjoct which is wot road in shais soeh studants are almo equí rol wh show spectal apeurmy b gramana
\(t\) A passare takon from in werk not preserijol to ter rad vill le act for imustiation


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\section*{MATHMMATICS.}

\section*{rune rain.}

Araminexic.-Revition of the Theary of Propartion, Vulgar mad Decimal Eractions.

Alenres-Common Messtrs, Involution, Erolntien, the Arithnatical Extraction of Rooio, Fractions, Equatbas of the First and seomad Degree, Proportion, Luequalitica, Variatlon, Progresshos, Iadeterninete Equatioss.

Gsomarin,-First and Becond Books of Baclid revised, Thitd and Fourth Books, Definitions of Fifth, and Sixth Book to ths Twantieth Propusition, with Geomatrienl Exercises and Practical appliations

Plans Tmaonometur, - Solstion of Plans Triaggles.
sycosp riat.

Growersit-Sixth Book of Euclid Anished; Geomatrial Exarcises cuethased; Oeoustifal Drawlug.

Plake Tangoyomerizy.-Circhlar and Grakal Mensare; Furetione of sum and difforance of sangles, Kh; Reations of the sides and anths of Triangles; Mensuration of Heizhuand Distaucss; Ehamatery Priblous is Nevigation, Use of Logarisiama.
 Triangles.

Alansza,-Proposltions in Theory of Equations; Dinominl Theorem; Propertes of Logaritims; Compoted Ititerest ; Ainaition.

\section*{nxTEA.}

Ggoverax - 21 Propecitions of the Eleventh Boek of Duclid: Geombtrical Exarcisca.

Theoxomatex-Fxtansion of Ordinary Courss.
Alowime. - Permotations, Camlinations, Prolmilltias, Ifan Assuravee, Inrestigation of Binomial Theoren and Thoory of Logarilums Indeterainato Co-efficiente, with application to Exparnions abd Saries,
 \& Co.) Blementa of Geomotry, or Colense's or 'Tochurtor'o; Celanio's or H. Smith's Algabra. For Second Yast-Colenso's Algebrs, and part; Colensu's, Tilgonotseny, is: purs; Todhanseres Splieltal Titgonobery; oz Hana's Trigodometry, (Weale's Sorios) ; Ohamber's Logarithmis, wo., Tables.

\section*{PHYBICS.}

\section*{MATHEMATICAL PHYSICS.}

Kinematies-Dyuamics of a Particle, and cí a Rigid Boiy, inewaligg Kiaaties and Statios. Hylroutaties, The ahow subjecta tre trenced in an elementary masner; but stnderts are assumbd to fo famllar with the Muthemasioc tomght in the First and Secood Yebrs' clavses.

The sollowing books aro rocommended for conseltation: Themsen and Tait's Elements of Natural Pailosophy, Part I. (2td Ed. 1879 Pits Treas, Carnbtidge) abs Garnatts Dynamica (Doifhton, Bell SCO Cambaidga) cr Wormali's Priaciples of Dyasmics (Rivingiona). Portious of Thonkson and Tait's Elamants wilt bs preseribed for sfirate reading to stadouis wishiug a First Clase position is the Fimi Eiamluatoras.

\section*{EXPERTMONTAL PHYSICS,}

Proparties of Sottas, Liquad, and Gises; the Taw of cle Conservation of Euergy; Hea, Electrldy and Magrecsm, Light and Rewlant Eleab, Sound.

The following books nre recomrnended for commitution: Stewart's Lessoas in Experimental Plysics (Macnilisn \& Co) ; Max vells Theory of Tleat (Louguane) ; \&, P. Thompson's Leasuas In Electifdy aud Hasuetika (Maemiltun a Co.). Poritons of the list tvo bocks will be proacribel for prirute reading tossuleuts viditag a Fint Casss posidiou at the Final Examinutions.

\section*{ASTRONOMT.}

Splerical aul Pyyichl Antronomy; with the elements of Geometrical Optics and their rypifration o Astrononical Jisircumats.

The following books ors recommended for constitation: Loomir's Treatseor Aswronony (Har)er e Bres, of Esall's klembats of Astrouphy
 Bell © (o.).

\section*{ETHECS.}
(Fowith Year )-Teat Bcols z Stewart's Activeand Meral Poven of Man. Whewell's Hements of Morality.

\section*{LOGIC AND PGYCHOLOCE.}

Tert Fanks: Bir Willism Hamiltans Lecmes on Logic. Prof. Lyall's "Iutelleci, the Rmotions, and tha Mcral Nawres."

\section*{MTEAPEYSICS AND MSTHETICS.}
(Third Year, -Tent Beoky ; Sir Willian Homilton's lactara on Metaghygica. Nassel's Metaphysics. Luves' Biographical Histary of Philosorhy. Corsis on the Beansiful. Allison's Essays on tho Natare atd Princibles of Thate.

\section*{RHETORIC.}

The sotraciacludes Stylt, Rigures of Speocl, Compositios, Descriotikn, Marrtion, Expotition, Oratory, Pooiry.

Teat Buak: Bhetoric and. Ruglinh Corxposition, by Alox. Prin, Itu. D.

\section*{HISTORI.}

Fourit Year; TExy Booss-Taylor's Modori Euzcpe; Greer's History of tho Figlinh Poople Beots reownmended; G.blow's Docline and Fall of the Koman Enplro; Hallan'E M tidile Ages; Eohlrauct's Histary of Gerinasy ; Coxe's History of the Howe of Aisitra; Sulleasa
 tional Eisiory; \$tuby's Conatituticasal History of Zaghan1.

\section*{POLITTCAL FCONOMY}

Foreth Your: Tzxp Books-MIT's Political Eoonony; Senior's Poltical Econoner. Booles recommendd; 8mith's Weall of Nhsinns: Fivectt' Mannal af Political Reanony; Porry' Elements of Palizioal Eoonamy:

BNGTISH HMERATURE AND MITAFEYSICB.

 These will ko 1 couran C-itical Roadisy of chasical authoct selectha



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\section*{HEBREW.}

Foviti Yecr: Tsax Book-Green's Elanentary Hetrev Bramnar, with reading and writing lessons and rocabularies.

\section*{CHEMISTRY.}

\section*{THEORETICAL CHEMISTRY.}

Ivonouxre, - (Sownl Yeer of Arte Coune und Fitas Irar of Seimes Course) Geovral priuit zles; Clinnleal Afinity ; Conblastion; M xture) Bulutive; Saspeosion; Lavs of Cambinatsoi, by welght, by polune; Zquiraloat Numiers; Alomis Numbers: Atomic Theory: Nomeadature: Notation ; Formalhe; Equasions; Dlemerts and their noles of occnro retice in batare, theit perparation, thoir compmands, importart olomienl procesobs, hataral and ittifeial, and manufactanes, to which alloy ano relatec; the Meanls, tachir general chamactens, elassification, *ccorrence in asturo; Metalfargical Pivecsera; Alloys; dexcripituu of ath the luaportant metala, their sxits and other compoti de suif of chemical pricesses and manufuctures connected with them, modes of testiog \(<0\).
 Zawnes Nauzal of Olentary, ar Roscoe.
 tion: Organic Series; Compariou of the priasipal Senits of the Fatly Group, Fian Tanalnes and Olelves : Monatcmic, Dratome, Tratonft sul Hexatomic Alcelopls ani Etbers; Monatconic, Dlatomis and Teirn
 Triamines: Artificial Basea; A Ealoicas; Ptarpinas, Avilhises, Arainas;
 Mnttora, Oatline of Animad Chemietry: Tiastios, Blocd, Mill, Uring; Respiration, Digeosien, Dutritios.

Mencoir Cnpuratrer - The Claze for Modical Chomiatry meole deily thyoughoat the winter atecich. Thil coarso cmbraces a dincussion of the prineflee of Isorganic aud Oxganio Chomisury, wht opecial refermico to
 celection of puisons, \&s.

\section*{PRACTICAL CEIEMISTRY.}

Lazerurozy Praorren-Freparation and examination of Gaies, Lefuils and Solids, chiefly the Metalloids and thatr cembinetiors with

 of mosning of temea Bais, \&oid, Sals. Seutralisation, Cormbationa Solubility, Affinity, \&e.; Illushatiua of prevesses of Crysaillisation,
 Remetons; Uss of Spectruscope.

Teat Bred, Labociocy Puctice and Qualiative Auelyals iy Thuppe mud Mair. The class meed shres simes a nook in the aftermpon.

Qublitative Cemmicas AXalraia-Systematic Qunitativ: Apa-


Teat Dooks, Wills Trablos of Chanical Analyais; Qualitative Aaw lpain, Prectniac, Thorps, of Appkesen. Clase mico to in tto atto woch.
 dafly (except Sisturdey) from 5 A. M. to 1 P. N, for werk in this (erart. mocat. Thare ie a refereace tibrery tia the talakio rean foc the uso of atulents.

\section*{ROTANY}

Mopplobyer of the Cell, of the Tisonats, and of the Extornal Conformation of Plants ; Specal Morpbology of Thaliaphytas, Characes. Mascines; Mesciler boreas in the Plints; Agregstich of Organised Strictares Morements of Water and Casco; Chonical Trocestos,
 Tonsporatano, IXght, Eloctrocity. Qeavitition: Mechankeal Tamen of
 Noremorta. Reprocuctioa; Hybridizatioa; Origin of Spacias; Origia of Variofies; the Theory of Deicent; Classificatian, isclading a Description of the Principol Natural Orlers of A vecican Plauts; Coographlcal Botacy; Oathine of Vegelable Falkontology.

Hearovoor - (Ta soantetion with the Botanieal Class). Instrection vill be given in the reteral vas of the Microwope, lie paparation and nounting of Yeroabio Cissocs, and she Microscoptcal Obsurvation of vtal phenomesa ln living plate.

On. Somedaye darlog farionalle neallee thers will bo Pield Excarkions for collecting botanical spocimeta,

\section*{GHOLOGX:}

Finar Wherna Srsarox: (Hidarical Geology.)-Tant Book: Dana't Text Boolc (hut ecition).

Sumprir Sessios: (Proctical Geology and Minaralogy.)-In the Ficd and Museum.

Snonan Wruxan Szsaior; (Petregraply, Stretigrapby, Dyaawict, Physignneply, Polcontaing:-)-Lectura notea.

\section*{MODIER LANGUAGES.}

\section*{ERENCII.}

 Gramane: Tho Aeciderce; Translation from English writure ; Dietation Faning.
 Athulin; Moliero's LAvar.

Fouerb Yeat tr Borexcer.-Coraelibe's Le Cid: Mollarda Lei A mencr astrates. Grumwar, Bourth Year (Arts asd Sriesco) + Syntax; Trindation from Roglikh writers.

Tat Boaky Bracbel's Publis. Scland Proneh Grammaz: Exerelases in Acdidnee and Syatac. For Jenior Ciasse--Briciset'a Poblic Sebool Elemintary French Qrammar.

\section*{GERMAN.}

Tinio Yeak ir Arts and Fingt on Thiad in Soriscr. ddjer's Reade; Sclillor's Whad'm Tell, Gianmir as in 19 runch.
 -Schillar's Wibleln Tell (pontinised); Goecbe's Ffranana und Derothea.
 Wase; Gooche's Egman'.

Teet Boakt Otto'a Gemma Grummer:
F Is the eque in which the itadent does got begin Geraan unte tac Jilife Yev.

\section*{§ XVI.-EENOUR COURSES.}

\section*{-CIASSTCs} Termos: Hasucatimerumenos Grgyt: Gooryics Books 1, IV, Hovica: Bplstles, Bonce 1. I1, Ans Yoefes. Juenol: Satires, VII, VIII, XIV Ciciro: Du Oratrry, Ducks I, II.
Teaitho: Germatia, Agriedh.
Gessec-Ascigins: Agamsuon.
Scphocles: Odtpos Coloneus.
Honur: Odysec, Booles V-VIII
Phaytider. Reok VII
Plats: Phiodo.
Demesticnes: De Docora.
Conposintck.-Iatin Prove.

Polo's Introdation ts Creole ard Lacin Eryology. Clase Licheres.
 Ltim (the poitions lmaring os bio amhers ned 'sayjosta of
 selectod chaspare; Tboutre of the Grsets (Dezaldaca) selocted portions.

\section*{II-MATHBMATLCS AND PHYSICS.}

\section*{MATHBMATICS.}

Truacncartay, - DeSoifre's, Thoorm end Amgiar Amalyis. Theory of Equatims, vith Horar's Method of Solution, aud Sturn's Thooren.

Araliticax Gxozarry - The Sirtigat Lie, flo Giruif Fanhila Ehipas Hypertols; The Loeus of the Geurai Equation of the Securs Degiee beeneea tro Variables
 Macaurin, and Taylor : Maxims and Moins of Functbas ó ono Vart able: Expanslen of Fuactions af ive Yatialles; Maximas and Minime of euch Iuriotions; Radins of Curvaturo, Oscolating Clrie; Sovelopas; the tradog of Ducves by meaus of theic Equations.

Txrsarant Calculos-Inlegration of Simile Forns: Iategration
 Applications to detarmine Leagth of Curves Surtioes, Tolumes ac.;
 fativi, ci g., Ocitro of Oravity, Abtepsion, Central Poress, \&s
 Tripomonet:y Tochamter' Pans Trijozonetry, or Colenss's (Ind part); Toduntee's, Finckio's, of salmocis Conic Sectors; Itulls, Hivis, ot Todanaters Differental and Invgral Oaculer; Tolhawicr'e * Ysuegh' Thoory ut Equativas, Drolo'a Dlficental Equatioas.
-PHYSICS.
Firematiss; Dypaniss of a Particle and of a Bigil Body; Hydev-


The followigg works ane necomisenid for tonknltation; Thomson
 Presal : Ninchir's Statica (Longuasas Green © Co.): Talt and Atmla's Dynarries of a Particle (Matnillan \& Ce.); Piribs Lestona os Righil
 Thils Sketch of Thermodyuamies (Dopglas, Elinturgh).

\section*{H-MHNTAL AND MORAL PHEOSOPHY.}

\section*{L0010.}

Sir Will man Hanilton's Lectrres on Legie. Whateley's Logie, Books II, III, IV. Nille Lugk, I, II. Bacoi's Norme Orginam.

\section*{METAPHY8IOS AND NSTHETICS.}

Derantas' Principlea of Photoorphy. Reed's Fagaps VI. Sie Williar Hamiltan's Lectares on Metaphyaies. Sir William HamiLoe's Philosephy of Percoption and Philoseghy of the Dueenditioaed. Dewes' Biograplical Histery of PMilasoply, Consins Fhilssoghy of the Hoartifial. Allizon's Iseays on the Pinciples of Taste. Burke ea the Sallimes sad Basatiful.

\section*{ETHICS.}

Mackirtogh's Dissartation on tha Progreas of Ethical Plilosopiry. Buter's Sermens cus Fuman Naturb, with the Prefaco and tho Dia antation us the Nauro of Virtue

Smith'a Therry of Mcral Scatimenta.
Themenn's Ciriatian Theism
Aristotle's Ehises, Hoeks In, III, VI, X, (in Eaglish.)
IV.-EXPRRIMENTAL PHYBTOE \(\triangle N D\) CEBMIBERX.

\section*{EXPGIIMENTAL PHYBICS}

Properites of Solids Liquida and Ghes, Invlalling the princioles of tie Kinetie Thecry of Gases.

Heat, Aaclodiag the prisciptar of tho Dramical Theory.
 Undolatory Theery.

Electriclty and Magnotisan.
Tho Canservation of Baoryy as ibegrat exporimental lan of physima) paenomank.

No nore profoand mathomatical knowlodgo vill be demanded than is asciosary fur the Bactietor degree. Canciaves will be required to show onnidamahle fariliarily rith loth the thoery nind the practice of the netheds of detemining piysical constints, rucl as the specifice hagt, the recific indoclioe agmecig, ihe dedrionl and thrinal conduchivily, the relocity
 instruments usaaly noployed in ehemical research.

The killoring works ame reconnonded to cundidates for coasalta-toa:- Magrias' Hydrostatios sind Psenmatics (Lougmana); Stowirt' Treatise on Heat (Glarenton Proas); Maiwelys Theory of Heat
 Aldis' Gconorical Optice (Doighton, 3 oll \& Co.) ; Iloyd's Wawe Theory of Light (Logguant); Roncoefi Specrim Analywin (Macnilley): S. I. Thompoon's Elecratidy and Magnetian (Macnillan).

Preatics is capoificucal rork may be bad th the Phycical Labotatery, Iabsratary hook: Kolleansert's Phyihal Measa remasia.

\section*{CHEMISTRY.}
\(\triangle\) Course of Exitas Stady will be prenoribed by the Proftanor, who will explafa the natare and extent of the wask to bo Coms, and ndvisa wha: books sloult be read and connoltel.
V.-BOTANY AND GEOLOGY.

BOTANY.
Candidstat for Henours will he ragnimed to ferm a Heshavinm, nonsistiap of poperiy ireparel spoivens of the Native Flants of the Districh ia which they revide luring ths Sammer, all carefoly aamod and elantifisd accurding to the Nacural System. The detonmionation of species mase ho denafrom tooks, withozt ceher ansistatce, and the examinacion quetious zill be se framed as to text ite Canoidase's kaowledge of the distiactire chamateri of De ipecies containol in his Eeriarium.

\section*{GEOLOGY.}

Gadilates will be examinad in Danas Mareal of Geology (lact dition, Caapmas's Otdline of the Goalogy of Casenca, and Nic oplsaza Marmal of Paheontology, init will be rejuired to make a report ca a fisld weleeted by the Protessor.
\begin{tabular}{|c|c|c|}
\hline HOURS. & IIRST YEAR, & SECOND KEAR. \\
\hline \(2-10 \mathrm{~A} . \mathrm{M}\) & Inorganic Chamietry (Scl.) (It, W, F') & Inor ganh Cloniotry (Arto) (TiL W, F.) \\
\hline 10-11 A.M. & Methemaila (daly)
Cban Laboencory (is) W.V.) & \begin{tabular}{l}
Tati (M, W, P.) \\
Grock (TM. Th) \\
Botany (Tu. Tz.) \\
Chan.Labotatory (M.W.F.
\end{tabular} \\
\hline 11-12 M. & Lauth (M. W. F-1
Grek (Tn. Th.)
Mecticai Chemitty (dally.) & Matherntios (filly-) \\
\hline 12-1 P. M & Rhecoetic (M, W, M.)
Chen Laboricory (M. V. F.) & \begin{tabular}{l}
Extm Matbaniscies ( F . \\
Crganic Clienlatiry (Tu. Th. \\
Cbmi Lobosetory ( (IL.W.F.)
\end{tabular} \\
\hline 1-2 P.M & & \\
\hline \(2-3\) P.M. & Germax (Sel.) (M. W. F.) & Trabel [Scli.) (Tu. The) \\
\hline 3-4 R.M. & & \begin{tabular}{l}
Logis (M, W. F.) \\
Germin ( 8 c.) (M. W. F.)
\end{tabular} \\
\hline 4-5 P. M. & & \\
\hline
\end{tabular}

TIME TABLE-WINTER SLISSION, 1082-83.
\begin{tabular}{|c|c|c|}
\hline totiss. & THIED YEAE, & FOURTH YBAR. \\
\hline 2-10 A.M. & Hon. Classios (M. 7.) Fevech (Sci) (Te Th. Geman (SCi.) (N. M. Y.) & Hon. Clestics (M \(\mathrm{P}_{7}\) ) Vranoh ( \(\Lambda_{r+1}\) ) (Ts, Th) Geman (Sxi) (M. W. F.) \\
\hline 10-11 A M & Chern Laboratory (M W. .E.) & \begin{tabular}{l}
Hiseery (daily). \\
0 rimane Chenciatry ! w \\
Chen. Lubvinery (M.W.F.
\end{tabular} \\
\hline 1-12 M. & \begin{tabular}{l}
Mati Fhysica (Tn.Tb.) \\
Exp Plyision (id. W, F.)
\end{tabular} & \begin{tabular}{l}
Ethier (M. W. F) \\
Exp. Mowlen (M. W. F.) \\
Poilical Eocmony (Tr, Ta.)
\end{tabular} \\
\hline 12-1P.N. & Latin (M. W, H.) Gritek (Th, Th) Man. Mrethomatics (Tra.Th) Ctiem. Iaboratory (M. W. .E.) & \begin{tabular}{l}
Latia (M. W. Y) \\
Grouk (Tu. Th.) \\
Antronamy ( \(\mathrm{Tu}, \mathrm{Th}_{\mathrm{h}}\) ) \\
IIon. Mathenatics (M. WV.) \\
Hon Plyslas. (T.) \\
Chen Latoratory (M.W.I.)
\end{tabular} \\
\hline 1-2 P. M & Hens Mathematics (E.) & \begin{tabular}{l}
Hoa. Mathamatle (F) \\
Hon. Physies (M)
\end{tabular} \\
\hline S-P. N . & Gernam (Arts) (M, W, P.) & \\
\hline 3-4. \(\mathrm{N} . \mathrm{NL}\) & Motaplazsica (Tn, TE)
Logie (IL. W. E.) & Gernan (Arta) (M. W. F.) Frarah (Sui) (The Ta.) Hebsew (Tu. Th.) \\
\hline 4-5 P. N. & Groleg 1 It & Goology \((\) i \\
\hline
\end{tabular}

\section*{DEGEEDG.}

A펵 1883.

\section*{BLCHETAORS OT ARES wITH HeYowns.}

Gromar Mitiat Chuparla ... Tmino,
Jages Svaze Trorkas .. .... .... Curleton, N B.

ORDISAET DFGEPE OP BLCRYLOR OP ARTS.


\section*{ordixary beghat of hachyton of soiknte.}

Ayexaypla Georgr Comizon \(\qquad\) .Nertown, Ginyshoto:-

HONOUTE, PRIGES, CERTIFIGATES OF MERIT, EX HIBITIONE, EURSARIER, 1881-82.

\section*{E0KOEHS.}

OLassarcs-Scooad Rawk-James Stary Truemayn.
Marinatrios ann Pirstai-Second Fank-George Mumay Camplioll

\section*{USITEHSTY PGZES}

Chassros Fourch Year, Truemor, J. S. Thind Yemr, Poll, J. A. Socond Year, Molasd, J. P. Fi=et Year, (1) Gammel, I; (2) (Aiticn, W, and Mickeod, J. M.)
Marabiestres: Seend Yatr, Muriy, 1, A. Firit Year, Calkin, Lillie B.
Asticosont 43D Opmics: Cumberl, G. M.
Phesics: MacGreger, T. 8
Mirimerartoal Piryicgt Reía, A, \(G\)
Britios asd Potitical Econony: Carion, G. 8
Mriapmyaica and Estumicics: Taylor, W: P
Looje axp Paranocoas : MeLeod, J. P.
Fitrfome: McLood, J. M.
Cれzmistity (Ironoayic): McLeod, J. P. (Ongasso) : Second Yeert Sonits, H. M.
Hisrourt: Crove, w.
Fuiscir: Fourth Yoar, Mrllish, H Thind Yoar, Smith, H. M.
Grovocr: Camiron, A. G.
Rotast: Smith, H. M.
Inazew ; Catsol, G. B.

\section*{GPNCLI IRIZES.}

The St. Ampiner's Chuncen Palee : Murme, D. A


 phyairs-(1) Taylor, W. P.; (2) MeClare, J. K.

Tuy Sin Wribian Yousa Gota Memain: Cumpbell, GiM.

\section*{CEATETCATES OV MRRIT.}
yACUETY OF 4hts.
Fhat Clase; Fowth Year, Mellah; Troumun, J. S. Thiral Year, Hell. Seopal Year, Afams: MeLeof, I. Pi: Murray, Firit Year, Alton; CalkIm; Coffis, P. J, Gimmel; Fermptoa; Martis; MeKeasie A. S.; Melood, J.M.; Fitadado, 1; Rohinoont: Tatt.

Skown Cuass: Fourth Yeor, Carion: Davidarn; Patterson. Third Yrar, Macdonald, J. A. McLeman; Taylet, W. P. Fived Yowr Crainfotl; Fitepatrick; Noweombe ; Thunpien, A.W.

\section*{VACTTTT AT BCTMTME}


\section*{}
(1) I. Gamanel, Pirton Aracemy;
(2) W, Alton-Susper Schoel, N, B, an 4 Pictes Aralemay,
(3) 1. F. Pispatrids Pisten Aoodeon:
(4) J. M Molot, Yrikat of Walke Stiloge, Clarlotatoms.
(b) Nat amarled.

THE MEYRO RER3KRES (:661)

18) A. W. Thampaen,-Piean A vallany
(3) 3. A. MaRenais,-New Glesgow sad Hallfax. Tigh
(4) W M 'Tefte, Halifiv Figh Sethool

Ditakice II, (1) W, D, Koneptota-peivate stindy.
(9) Margatet Nevrcombe, - Cornwallis.
(i) Sce awaried.

Dis7elot III. (1) J. M. Motarn_-privite strady.
(2) Nick avarled.

(2) I.J. Cafn_-Priase of Wave Col, Charlptiotown

Disytice V, (t) Noi-swarded.
(1) Not swarled.

\section*{SPECLAL MUNEO BODSARITS (188D*}



FTAMTNATIONS, 1881-82.

\section*{FITEICULATIOS EXIMNATIOSE.}

\section*{ocroper 1885.}
(Thus foilinwise lee Nontsine thn napers of thon wha nitherrasedt tomitrienist ine


\section*{FACULII OF AETE.}

Finst Year: Alen ; Bechanan: Celtin; Coffng F.J.; Cofin, F. S.; Cannford, Dinock; Doano Pitapatick; Plommiog; Freetuat; Gameat ; Johmona Ksapton; Derke; Ingan ; Martia ; MeKesale, A. E, ; M. KLuman T. H. ; MeKilnon, J-; MeL\&nn, J. M ; Meleen, W.; McLeod, I. M. McM1lan; Nowsocnbe; Pisblado, 1. ; Hojitacn; Thoapser, A. W.; Thosypoo, W, M.i Tuth.

Sacayd Yivali: Camploll, \(\Lambda\)
\#Agपint of aciange.
Fievi Yedx : Benk; Cemplell, G. G.; Magras, A. W

Katicanek Examixatioge ix ELassical mastusi.
outbasis, 1581.
(Tinnaines araln asint of nerit)
Timad Yise: Closa I., Bell; McLemaa. Goss II. Dickie. \(\lambda^{3}\) assed, MoDcnald, I. A.; Mckinali, 末. W.

 Attuns.

\section*{SPECLA DEGHEB EXIMTATIOXS.}

GOMULES, E8S.
Foubtir Yealt: Stoware, T,
 Eopasurf, aud Crench Dtckonion J. W.

\section*{SUPMESESSFABY DKAMRNATEOS5.}
oexoner, 1821.
ITHD I Bat: Letin, Dhviason. PLstics, Cumeron Conic, Gamerct.
 Lhtidy JANTART, 1 KX2

 Melłcnald, 11. Matlenatect, Mcieol, J.

Fuse Yeant Gorek, Harailhe.

\section*{SKSSI0NAL EIATISATLOXB,}

Apalin, 1832,
GENRRSL PASS LI\$T.


FAUCLIX OX ANJI.

Foenth Ygan: Camobell, Q M; Canoo; Davidson; Fraer, W. R; ; Knowles ; Landells; Mellish; Potserson; Tosey ; Trnemma, J. S.

Tuint Yan: Roll Dicke: Micoconall. J. A.: MeGieger ; McKomio, J. W.; Mcleanan; Jaylgr, W. P.

Ssconn Yzun: Adans ; Dill; Jenes; MrDoanld, D.; MeLsod,J. P.; Minery: Pithlade, \(\mathbf{J}\).

Finse Yeat: Aiton: Calin: Ccflit F. S. : Cofin, F. I. © Trevforf: Doanio Fitapalrick, Mommug Freman; Ganmel; Keripton; Iecko;

 W. M. ; Trueman, H.; Teft.

JACTLTT OT HCRENCK.
Fognta Yeaz: Cameroz.
Thrso Yean: MeColl; Reid
Sxcons Yraz : Nillm: Smifh, H. M.
Fisios Ykale: Boak; Marrae
CLABES Thtsts



\section*{SATIK.}

Than sxd Fockit Yaxs: Ciast \(I\)-Trueman, J. S.; Bell; Reit. Givar IT. - Tayloi, w. I.; Macdouald, J, i, Carsoa; MoLennas Davidaos. Pused.- MacGaegor; Paterson; Toref; Dekte; Knewles; Erace V. K. Landolla; McLeod, J.; MeKensie.
 Jones; Dili; Thylor, W, B. Pithlado, J Passd,-Saith, H, M; Eliott; MeDonald, D.; Prainer, W. I1. f Milier.

Finar Yant: Close I-Gammell : (MeLaod, J. M.; Roblsson);

 Thomjson, A. W. Parsed.-Ccfin, F.S. Mciean, J. M. : Lweke: Domen; (Froeman Macrae, A. W.; Morrima) ; (Bonk; Truenan H.)
 Thamson, W. M.

\section*{CHERK.}

ThiEd asy Fouktil reabs; Clase \(t\) - (Bell; Mellish) ; Tramas,
 Patterseas; Fraser, W. I. MiLiend, W. Dickie.

Secosp Yant: Class I-McLooe, J. P.; Adams, Clans II-Joner;
 W. B.

Fhat Fain: Chas I.-Atonj (Gammell; Motord, S. M.) Martin: (Calles: MoKenaie. A. S: Rotins(n) Ciasy II-Tufts: Neveoribe: Coftin, Fi, T. Thompisoi, \& W.; Titllad, In; Crawiord)
 Locko ; Thompon, W. M; Frotmaa; Logan ; Mekiamos; Flemming Doine; Troman, \(H\).

\section*{Matheacazice.}

Sucoss Yzגn: Clast I.-Mumny: MeLect, J. F.; Pitbleco, J.;
 Dill. Pusad-Camplell, A.; Smith H. N.; Taylor, W, B.; Millor.

Finst Yeas: Clans I,Calkle; Nartn; Newconle; (Gammel) Freeman); Crawlurl; (Kemptou; Plthlaits, I); Thomppos, A. W. Moerrisan: (Rohinsen; Fitspurtick; MeKersie, A. B.; McLocd, J, M.)



 Pased in Gemetry.-Login) Cucrio; Rogers.

\section*{ratraces.}
 -(Diecie; MeClurs); MoKinsie, J. W.

Clase 2.- Hett. Paesed.-MeLeanas ; MeColl.

\section*{EXPERIMINTAL. PRYSICL.}

Panedi-Cumituin.
AsT\&
Cion 1.-Camphell, G. M. Clas IT-Mellish Pasied-Davidsom; Taniols.

WKMACS AYD TOLIMOLT TCAROMV.
 Fracer W. .i. Pattervan; Torty. Passed.-Lancells.

Lacirc ixn isycuovorec,
Clers [-McTand, I. P.: Norray Clees:IT-Adans, PasedMskas, W, L.; M:Doadd, D.; Jeags; MoDenald, W.; Dill ; Hitblate, jElliots; McCult.
setarivares sND marmertoh.
Clasy R.-Taplor, W: P; (MeLennan; Dickie). Chass TK(McClire: Meheed). Pessui-Mcketzio, J. V.

\section*{newronag.}
 Kemplon - Tofis ; Liblato, L, Colin, F, i. McLoun, J.M.); (Calzin) Retimon Nartin) Clast U-Caftin, I, S.; (Dhaste Atwa);

 Enoonau; Looke; Currie.

Hirtory.
Cono 1.-Growe; Patarsoa; Devilum. Ciose IT-Carsol. Pusted. -Lamidls, Tury ; Krovies; Frises, W. R.
tadesamic ciekianty.
 MeDouald, D., Causicll G. G.; Mirm : Cainjtell Comgton; Jowes; onowac oumpiorat.
Class KT-Cameron; Smilk, H M.; Miler
CHEMELT 1ABOEATOIT
Chass 1.-Cumaren; Smith, H. M.; Miller Fassod-MiColl.

\section*{botaint.}

Cluma I.-8̃ater, H. M: siller.

\section*{980coar.}

Class \(I\)-Camsron.-Chan IT-Rsid, Yedol.

\section*{hrarizw.}

Chan I.-Carops ; McDenalc, W.

\section*{ruman.}
 Comphll, Q M. Dantson; Carsen; Torey; Pattrone: Landelha M-FRnilv, J. W. Passid-Krase, W, it; Knowles; Cameren; MeCall

 -Miller.
ceritan.


GENERAL LIgT OF HONOURS, MEDATS, PRIZES, BXFIBITIONS, BURSA RI \({ }^{3} 9\), doc, 1878 -82

HONOUEA.
187)-(14skroa : Secosed Reat, Thace M, MeLana.
 Cameroll.

 1ss:-Cllssiss: Necond Jionk, J. S. Triemat.

Mstmmatien Amp Parsice: Secoid Rent, G. M. Camplell.
THH GOVERNOZGNAREALS OOLD MEDAL.
1873, J, L. Giooge 13se, B. Grovall. 18s1, EL, G. Crotinani 1ss2, d. 8 . Truemin.

THIC SIR WIL TOUNO COLD MODAL,
1989, O. M. CamploII.
FAE: GOTERNORGENBRALS SILYEK MEDALA
 1819, sot awinded

THE NORTP BRTTISH SOOLRTY BURSARY.


\section*{TIE DT AVEEY PRIGE}

TIII WAYRETEY BURSAKY,
1051, II Maxay. 1581, J. A. BeII,
THE ST. ANDESTS CHUSCH FHEMR.
 J. A. Nindoaili. 1889 , IT. A Merriy.

THE YOUNQ ELACUTION PRTEIS,
1378, (1) J A. Sodsenibk. (2) D, Cenerout 1873, (1) C. D. McLaren.
(1) E. Crovtll, (3) W. E. Eraser. 1683, (1) D. A. Marray, (2)

THK ALTIMNT PRIZES,
1398: ( I hird Year) (1) R Maksy, (2) J. M McTonx. 〈Kiad Veas),

(i) (a. M. Cumpleli, (i) O.E. Cumev.

\section*{UNIVERSITY PIIZRS，}
 1830，A．F．Thomson－1881，J．A．Sedgaxick． 1889 ，J．\＆ Trucoand．Thent Your； 1878 ，G．W．JicQuean． 1879 A．E
 Bell．Seensd Yior；1378，i E．Thoman，1879，（1）H Hurray， 12）J．8，Tetenan． 1810 ，H．Mollish． \(1881, \mathrm{~J}, \mathrm{~A}\) ．Bnil 1882 ， J．1．MeLsed First Year ；1878，（1）J．8．Truaram i2 H．\(G\) ， Croplnae．1859，G，M．Campholl，1850，（i）J．A．Bell，（2）J．A Madobalc．1851，（1）J．P．MoLeod，（t）H．S．Adans．IS89（1） I．Gammel，（2）W．Aisos aal a，M．MeLeod．
 Marrar，（2）II．G．Crealmano 1880 ，G，M．Cumbecll，1831，A．G
 Cirsorn 1880 （ 2 D ．A．Nurray，（2）A．G．Rali ． 1881 ，（1）J．P．

 II G．Crohmant 1881，G．8，Carmon．1882，T．A，Maofiregor： Mak，Pars，A．G，Raid．
Asmovoxt ：1831，II．G．Creelana．1862，G．M．Campiell．
Erimos axi Poatical Ecesour：1879，J．H，Cameron．18js，C．S． Canicroa，1000，J．F．Dustan 1001，T．Dtoryath 199a，G．Q． Caspoz．
Metatituce and Drmietios ： 1878 （1）R．Mckay，（2）I M．McLean． 1879，（1）A．W．Mabor，（2）E．Ctowell，1850，且，Mterray，1581， （1）W．SA．Fraser，B．So，（2）G．M．Csmpheli．18s9，W．P． Taylos．
Louro asy Parcuenoax：187s，A，If Thonsoa，1879，E．Marnay 1860 ，A．V．Maton．1881，J．W．MrTheanan．1882，J．F．NeLeod
 tory），A．V．Malon．1890，E．Cowell．1982，W．Crowe．
Rimyento：1978，J．\＆Trueman．18：9，G．W．Fowior．1880，J．A Bel．1881，J．P．MeLtod．1889，J，M．MeLaod．
Cummotier：1sis；Third Year，R．Sckiny Stcond Yeer，（1）S．J． MoKright（i）A R Thimess 1059，H Marrar．1500，G．M Camptel）． 1881 （Otyanie）A．A．Reid；（ferrganie）I：Dickis． 1362，（Orgaic）日．M．Smisth；（daarganic）J．E．，Mclead．
Gixcloex 1081，A．G．Caumerun，J882，A．G．Cqumem．
Zooto9r：1881，J．A．Moren
Botany ：1869，H．M．Strith．
Fhascit ：Fourth Yee1； 1878 G．W．Maro． 1879 C．S．Cameron． 1880，A．N．Maton．1881，＇T．Siewatt， 1889 B．Mellish．Twind Yom 1878，\＆．Jicksy，1673，A．W．Mation－1854，UL．Nuriay 183），H．Mollsh 1892，II M．Smith．
Gumas ：1830，H．G．Creelmam，1881，A．G．Reid．
Hemener ：1832，G．S．Carsot．

\section*{}

1071－1）G．M．Campben，Trumo High Echpol；（2）dames T．Ny lie Picton Acudeng and Hulitix Higb Sobool，
675－In Arts ：（1）J．Alhert Elell，Halifax Heh Sehoul：（9）James A Moren，do （ 3 James A．Mscdonald，Lo．In Science：Arhiur G Reil，Hallax \(\mathrm{H}_{\text {gh }}\) Sohowt？
 Sinulo，peivate stedy．In Science：Henry M．Smith，private studf．

THE MUYRO BXHIBLTIONS．
Jewne－ 1881 －（1）I．Gammel，（2）W．Alton（3）II K．Fitspatrick， （4）J．M．NcTeod

\section*{THB JLCNBO BURSAIUIS．}
（The sames are is arder of merit．）
Jusiog－1880；天．P．Me［cod E．M．Dim，H．Elisth，D．I．Morrison，F， Jonet， 1811 ：G．E．Rolinem，W．F，Kengon，F，S，cottm，A．W． Thoدpson，Lulle B．Callin，J，Orawionh，K．J．Nerth，J．M． MeLean，A．S．Mokensio，Maryarvt Nemeombo，W．N．Tuts．

\section*{CEETINICATES OF MERELT．}

\section*{The namer are arrangat aljhahatiealily－）}

Fisar Clabs Fiverif Yow，1975，J．II．Comporon．1979，O．8，Camaran， T．M MaT，ent．1881，E．G．Creolrain．1899，H．Nellish，J．S． Trumm．Third Yran－187s．C．S．Caneron，B，Yokiy，I．M． Micleam，G．W．Nequens．1660，C．W．BAmphuri，II．G．Creal－ man，IT Mrrray．Insi，G．M．Caraphell，J．S．Trarmas．1889， J．A Bell，A．G．Raid Secand Yar： 1878 A．I．Themam． 1879, H．Marray． 1800 ，G．ML．Cumpbell，H．Muilleth， 1851 ，J．A． Holl，A．\(G\) Rell 1835，H．S．Acame J．P Metinat D．A． Muray．First Yoar ；1875，H．G．Cicelnan，J．S．Trvemum． 1570 i，M．Camjsell，ti．B Carson．I280，J．A．Neil，d．A．Mlac－ donidd，J．A．Maron，D．A．Murtay，A．Q．Rell 1891 H．S． Adans，if Ellicts，J．P．McLeod，1382，V．Alton，LAlie B．

 V．．15．Tufts．
Sacomp Clase Fowth Your 1878，G．W．Munm，A．Regern． 1879, H．R．J．Famerey， 1890 ，B．Crawell．1881，J，A．Solgewick．
 Thind Yore 1859 B．Crowell A．E．Thennon，1881，H．Mellish． 1582，J．A．Mieconald，J．W．TcLenmas V，J．Trylor sicmil Yespi 18Ts，W，I．Frasor，1et9，H，G．Orwhinan J．S．Tricman． i85n A．G Chmeron．1881，2．A Macdoanld．T．S．MscCregor， J．V．McLonnan，J A．Moroa 1882．H．N．Smith：Finat Yow； 15ik，W．H．Spencer． 1829 ，J．W．Melemmin． 1850 ．II．MeInnes， 3．NeLood，B．Thamena \(1 \mathrm{kR1}\) ，I．M．Dill，F．Jones，D Margaret Temeonle，A W．Thompron．
N. H-Uincuatat to whase namas az asterisk is preficed ara menbita of the Alami Lenociation, - Degrear primbec with the asmet ba7e heen obtine ed at other Uaiversitive,

Craduatei we asquestel to zetlly the Paisalpal of shy olange of ad山es:


TGidfafel wit Hecond lark Tovours lin Chatics





 Putsorios, G. G. New Glistow \(\qquad\) Pivilate, Cojis, Yianezpodis. Polok A. W , Thaspoli........................
* Rolert, Ceazimir, Ariolut, C, IB, w.......
 Kob, Alexandef, Dilliouase, M. D.
Tusail zav \(A\) G CyarerBar T I, N. Scost, Hev, Eplinifin, Now Glacgow,
- scmet, Kev. Itot. H. NicD. H D., Ohtago Goost, I, MeD., It Colias Cols, D. B... sodsevick, I. A. H, lifax...........
* Sedgevick, Robor, Q, ©, Halifir Shaze Fics, Robeit.

 5nith, Rur, Rivia, Stowliche * Dpeaser, W, It, Lonfoadery
 Sravart, Thamay, WIymamath
- Etramber 易, II, Cape Joha, Pieton Sothetlan, Eev. J. N., \&t Jimes, N. it


Thorbum V. M. Madma
Joriy, E. J. Onyshorocgh ,...
Tratman, A. I, Nt, JoliE, N, 11. Wadddil, Jolon, Derabumbl Usiversity \({ }^{3}\)
tWatace, Ber. fola. Beramds
*Whace, Eef, fola, Berandi ...............

\footnotetext{
- Cradualel wits Becond Zapk Honbian in Claralen


}

\section*{UNDPRGRADUATES IN ANTB, 1001-2.}


\section*{UNDERGEADUATRS TN EGTHNCE, 1881-2.}

Aiton. W, Sunex, \(\mathrm{K}, \mathrm{B}\),
\({ }^{-1}\) Bowhian, J. J, syiney.
Collin lilie S. Triro
 Cofin, J, J, Ssvage Harbur, e, E,L
 \({ }^{-D y w e c h, ~ A ~ B, ~ N i n d i o s: ~}\)
 Tleanting, D . H , Hilihax
Truanu, H1 B, , Bililus
Cammel, I, Upperstoviniza

Kuptinis, W. Y, Mriten
Lodke, R. T., minctejor,

HoKimbon, N, W, Hitins.
HoK日azle, A. S. Dortrath
Ifoleen, J. DL, \&omihlarnos
Havern, ty orout vilas Holood, J. M. Valloyieli, F. E. L.
 Ikictor.
Ke woinkle, Margates I., W. Cora-
wallis. wallin,
riwimio, I., Hallax
RoVinoer, C. B, Ohurlstbitome.
Thempsinn, \(\frac{1, W,}{\text { Whenent }}\)

Oneman \(\mathrm{H}_{2}\)
Rata, W, Mt, Ha Bfor.

\section*{}

Camber, A.G., Sentewt, Gaybero

\section*{TEHD YRAR}


Boak, A. A , Hulfes
Sinpboll, G. G. Trurs. Meorae, d. W., St. Jokn, N. IL
 Millor, J. T. Fhlifas, Boith, II. M., Hallife.

\section*{FImT xAl}

\section*{GBNERAL STUDENTG, 1881-92.}


SUMMARY.


\section*{ALUMNI ASSOCIATION OF DALHOUSIE COLLEGI AND UNIVERSITY.}

\section*{(Troovporaled 1.676.)}

\section*{EXTRAOT EROM TILE CONETITUTION.}

An7. II. The object of the Aseocistion shall be the promotion of the best interests of the Uniwsity.

Asr. IIL, Sbe. 1.-All graduates of the Uaiversity and all stailents who have attenied clasee throughont one acadewis year shall be eligiblo for mombership; but no peronn shull bcome a membur until thrce years hare elyped from the time of his matrioulation or first regiskition.

Sec. 2-Obher persous nut eligible for membership under esation 1 of this artiole may be elected ns honoriry mermbers on the nomination of the Execntive.

\section*{9PrxGusks.}


\section*{IIONORATY MTEMBERE.}
Rer, Prinejpal Mons, D.D.
Ker. Prof W. Lonil, Lt in.
Trai. C. Minelerald, M.A.
Prate N. Jahtiven, M' A

Trut. G. Lawron, Phid, Lt.D.
Prof. J. Lieoluti, M.A.
Hiv. Yrot. D. Hoosognan, D.C.E
Ilom Bue J. Furavet.

\section*{OHDINAFY MWMHIARS,}

Those grideater to whase names is acturiak is prefised is the list on page 22.
Goak, H. W. C. Ramiter, Halifne. Beltrar Y. T., Marriser, Hallfas. Donll, W. M, Merelatic, Thlifux.
 Hong. H. Mob, Purrister, Falifas. Hamparey, M, Halifix,
Hanphog, W, Marin Sh, Halifas. Mella, W. A., Bantitar, Sgleey, CII.

\title{
EXAMINATION PAPERS, 1881-82.
}

\section*{MUNRO EXHIBITIONS AND BURSATIES.}

\section*{JUNTOR,}

GREEK
Fin Gued Tapsi, zu Appenilix.

\section*{LATIN.}

Examinar.
JoHs Jorxsocs, M. A.
CASAE: BJoK VL VIEGHLL: BCoK \%r. Ocx. 22nb. Trese-Thern Houns

\section*{I.}
 coacto thinero ex flylthais civitatitus, in oanes farter dimitt t, Omnos




 napge it ism dozan restem ost, tanto in onnoa phrten fivios equitatu, ut modo vimm als no Antiorigom ta fuga circunof fecreas caplivi noc plane







2. "Ut, ai qque efiam... hls.... pereumlum ridentur." Wrie in at
 thems, mood.
 of the sonteuse: "As suope in eun..." sad sher thelr relaton ts ens another.
4. The chiet reves of Gillian anil the eng they fall into, wita atcient anil mideru hemere
D. Trasulats.
 Thacelntur vitel, imapuun si polluen pusit Foventicico detim; tanio magrs ille latigat.
D zatilim, fora esnta dakime fingitgai pramade.


S) atdem mapuls pelaet Jolunte periells!

Sol toriac giariom minent. Is rogin Larini
Davkurdes vesiant; nite hove do peccom cumas;
Sel ros e: venisse rokat Brla, horida bella
Et 'liyatim malty mamaters zaw gine obrno.
Ken 3 nos itb, hor Xarthes, tie Drelea castra
Defusrink; allis Latic lam perto Achilles,
Nitho ei ijper deti.
1. Givn Iriffly the mies fer thecemas of "Phatit," "tamax," "הez"
a. Whatie realat ty the lace leginsing " You Sirvis"n Whe was "nlitus Actilles'?
0. Trasedato:
\[
\begin{aligned}
& \text { Ne. parit, ic tanias suliab arlsacectia :clla, }
\end{aligned}
\]

> Teque prios, te paree, genss cui dueds Olgmjo,
> Pryife tela inan, kuncris neasl-
> Hha trimphata Chyíiolin au alta Corlatin
> Vherespes earrm, eseqe in's giis Achifris.
 in prose from
2. Wlo are meant by "Mle," 4 Ille," 4 Aeacilen "



\section*{II}
1. Decline an the aing ; drus, palfgi, Achilkg-in tae plate; vates, io domals,
8. Compure: celariter, pmps, vet is, An nilise pritas.
8. Writo in Latio roercs: 49 mm , 899 ulips 25,000 selfare
4. Taveo, giviog chief parts: pact, enaferlos, partus, pureo.
5. Write troagant (a) fitt iutic, suc pres, subje. aciva of trole or a; (b) pres. ncie. ptass of eque or faro.
fi. Sem las thres lines of eytruct 0
 silti, paticris nozelitur.
 esputire as, \&s.
8. Traidate fafe Latin:-Tuare wil te noed of mayy vraria One ded at Rome, the other at Cartlage. Whe did the paneral pitea thes cent on the topot os mocreans After the ecricuest of Gaill, Caedar retanived

 the thorkaraun vith great nlaugher.

\section*{MATHMNATICS}

\author{
Erapilito .
}
C. Madnostatb, M. A.

\section*{GEDMEL\&Y.}

\section*{TMME: TVIREE HOURE.}

N, B-IL the folloving, "His " Heass " trright line,"
(Wrice the rams of the reat look yoa lave nabd in preparing for thia extminetion, at the rop of your pajet with yout namber.)
1. The lins AB ie ansumed to cotnith vith the lino DA. Oire an nthar form of this assamption.
2. I. ive anyfer of a triangto be equal, the siches opposive then ars also equal.
3. Parillolyrams on the same lase and hatreen the ama parallels are equat, This enunciation is delective. Prove thin propesition ofo igune)
4. It a llos le divithe into two equal mol aleo into two meenal yorts, tho sum of she syture of the uimisel puets is eopaal to Completo and proge the muncintion.
5. The two sides of a triamplo aic 10 axd 8 ajad the lase is 16 ,
 tha genseral shana of tha triangle axd tho length of tho perprodiaviace, and bedstance of its extramity in the hesen fris the seamst ingle.
o. If two iaknoctiog lines have shelt extremitics Jotsed all roane anc alno tha forr scjartio trianght be equal in aroa, the ouebsed digurs b a punallolognm
7. A lino BD istrise:tod in \(G\) ant \(\bar{I}\) und lines are drawi fon any pofat C, not in BD, to B, G, F, D, Frove that the snm of the secuaror of OA, DD-aad DC excseds thit sum of the sgures of the shate if tho intulte lanugle or \(t\) tu! the aquare of BD .

\section*{ABITHMEIO AND ALGKBSA.}

\section*{Tume Triaz Hovis.}
1. A person berrowal it sum o mooer at 50 par ceat. par ammen, for 4 moathis and phid fer tho sccommodationi 821.50 What was tiesiml
2. A cistera car be flled in 10 hoens fron ons tap and in 12 hous fron miother. These is a thind tap, which, ween it futt, wonk onpty if in shows. Waos the cistern halif fuil sit the tay are openel. Eapfose the withe to lov unifomly, aud find the sonsoguencea.
3. Bolase to rulgue frectisns, in iorost torne, - \(2955^{1} \mathrm{a}\) ad
\(+\frac{1}{2+}\)
\[
+\frac{1}{2+\frac{1}{3+\frac{1}{4+\frac{1}{2+16}}}}
\]
4. Fisd the resill of
\[
\left(\frac{1}{1-x^{2}}+\frac{1}{1-\frac{x^{2}}{x}}\right) \div\left(\frac{1}{1-x^{2}}-\frac{1}{1-x^{2}}\right)
\]
fand explain the meaninc of \(7^{6}\).
5. Dtrile az +133 by \(a+2\) : and malliphy
\[
x^{4}+x^{3} y^{\frac{1}{4}}+x^{1} y^{1}+y^{4} b x^{4}-y^{\frac{1}{2}}
\]
6. What futhe necsasay condifion that the expresjon \(\operatorname{cx}^{2}+l x+c\) nuy be a comolote squari! Haring foerd the conditice, extrat: the equine noce of the exprisation.
i. Solve the simultaraerus ecpantions
\[
\frac{1}{x}+\frac{1}{y}-5, \text { and } \frac{5}{x}-\frac{3}{y}=1 .
\]
B. Giten \(\left.\quad \begin{array}{rl}z y \\ x y^{2} & =a \\ b\end{array}\right\}\)

\section*{BNGLISH}

Ennsiners.
 THS: THEE FOLE

\section*{GRAMDAAE.}
1. Dittignish between the oljectivo and the dative caars How it the detive ctee explrined, or into what other govemment rmay in lie rasilreal!
3. When aro intromitive moste ment transitizaly? What do jon midsatund by the "cornate olifectivn" When ife erllectire coins follawod ly the slagula, when by the plemi? Give an examplo of tic noxinative abeelute.
2. In what eates is "tiat" preferna to "vho" or "Thich "y the
 nany the rolative ho emitteds
4. Whes ret al jectives nisil as momas? Give an istance, or Inatescos, vhero they esen to taka the plaes of alverbi.
3. Faptalu tho use of tho onbjumetive moodi. What seajemioion doee it fellow 9 Ciro me cxample of its 749 w thant a cosumetion precediay 9 When is the indicutivn usec after a coniuaction?
6. Whatile yen underataad by the gerandf Gire on oxample of the gorind as sabject, give am sximple of it as objoes. When is "to" he gex of the liffifive, onfiket? Whint is the conplameatiry infaitive ? Give eximpies.
4. Is tho ininitiva avor nesd as the muljoct of a sertevees After wat werls esperilly yisy it deavie the otject?
8. Distiagisist betweet the user of "shall "and "will." What is the
 comotimod the zamo from in the thind os in the firt permod singiler t Give exanples.

\section*{ZNGLISII HSTORY.}
1. Whis mote the 8axonat
2. What yas tho canditban of Eagland during the Hepturchy 1
8. Name tho Danith Linga of Eygland The Mastagatets.
4. What vas the dispate betwees John and Popo Inrcerat III
5. What eperial ants of despotism muked tho latter per of the reigu of Charlea IIf
6. Give a helef aomint of the Ameriem War of Inilependence.
7. Dooaribo láefte she pasaing of tha \(\mathbb{R}_{\text {efors }}\) Hill (1859). What dangee did it iatroducs?

\section*{CANADIAN HLBTORX,}
1. Whan and by what trenty was the gosession of Cansida csafimita to the Fing ish
2. Give a briet acsont of the rebolion of 1817.
3. Give a bref neoonnt of the expulsicn of the Acadians.
4. When wis Candada divided Into Upper anit Lover, and whan munisel.

5 Give deto of existenct as teparate Provinces of Nev Bruasvide, Prince Bduarl Island.

\section*{GEDATLAPY}
1. Give the boundasies ci 人astria, Pervia New Jorsey.
2. Doserlle Jriofly the course of che Bt. Jamrenct, the Hudion, the RHias, the Arece, the Congo.
0. Losato Forlh, Bolfast, Mnil, Morsuce, Delhi, Canton, Toroato, Trmpion.
4. Meetion the coulastios ank argo ishands Ifing nittia the troplat
0. What in the latikude of In'lfax, Eoadpa, Niew Yerk, Cays Eom, Cape of Cood IIpo, Melbsame, Shaighai, Now Oeloasa!
 froms Oporto, Hoadialn from San Yraacico Pikin from Yolle, Yaizonth, ( N S. ) frow \(\mathrm{St}_{\mathrm{t}}\). Johan ?

\section*{ELSBIONAL EXAMINATIONE, 1882.}

\section*{GREATC}

Fer the Gireck Lapens of the ratione reire, sen Appendix.

\section*{LATMN.}


\section*{FIRSI THAR}

\section*{}

TDE: Thle Home

\section*{A. Transiale:}

\section*{I.}
 calamisute prediliers siqientfat, vilero inultcrum civiun eslanititem a


 propter tmorem. Ikinde gool tos endem Aslin itqua iden ista









 veetigalia masiniah, hatians plaumerum ctram cum ro publica deferdame.
 ptsfic vetond recoppmare. I Inuslave accoriline to differout malines.
I. Pectigutio mirima; Deserthe the borrecs of ravorte And tho mathod of cullections if
 the mols msed vith purn.
 by tie sabuaciret IXplaia the use of nood here.
8. Saken dsic: Deacrithe the exrent of the provisee in Cicero's tires and the orkge of li.
6. The dase of thin sperch, its ofjects, itr divialume und the dy,taaboat Pumpoy malilazed oliceen.
D. Tancrlate:

Tum ravit, wrrantom Iermosi ad Inmilu Gollu-n

Utque viro Phoobi cluccis adierrexnits omnis;
Ti Lines livoc illi, tivino cuanlus piocor,
Mostur atcoe apis ering veantas atmazo
Dtwatit: Has thil dan cilurne, th necips, Misae.
Ascraco quos aite sen, (ulthas ilie seterat
Cartindo ricidas dedussie moctibas orios.
His tibi Grynei nemors dicatur congo,

Guillounar, adi Scrllum Nisi, qam fums secuta esi
Cutdide seceincean lintrantions ing qiats menstria
Delebise wexsede rates ef gargito in alio
Ah timidoc ramisu canillus hoaricse matits, Aut of matstos Therw awnavapit artus,

Cut cusu cusort a petivarit, ot quitar ante
Infalis ma jecta maporvelizarecis alis?
1. What legonils aso confused by Yixgil in this pasege?
2. Describs the sitration of the places zamel.
5. (a.) Ascruso peot citi seta.
 Write explativory motes.
4. On what werk ane Virgill Edggues lased 4 Whan whane they writton? Whit inocogrnitior are foend in thom? What tirteribal facte une wherred io in sumo of them?

\section*{II.}
1. (c.) Name the nouler, and declise in the ging. (marking quatity of fial eyllasles), retio, pinst, eor. Vewer.
(b) Aloo in thoplamil endo vol, hrog, dajpea
2. Ths fomme in the ether depreas orrrappontiag te 4

5. Mark quantition and parme, giving chisf parts:
. Scan a Erporins in dein cejebeto, et ecetst Amysias. Spazgle hamem folifis, irimoito fonibu vinhirss Moc henium Itrodupe miatai of lenauna Orplea.

\section*{0. Travolato isto Lexia a}

Hansibah who bod bner appointel gonmal by the Carikpeizinuas cause
 dazod in flomona dend to azo his masor, whom lo lorol gresty. - Hio

 the gods whin be beark that intisn liad been alsin in batile

\section*{ADDITIONAL FOB A FIEST AND SRCOND CL. \(28 S\).}

CICERE: OHmask IGaisk Cumbing L. JV:
THEE: Two Hocili.
A. Tranalate :
1.


 aoacg ghdatart ist al vivenfun non dedissem. Ftanim, al serani viri of clarissinil cícs Satkmini ef Gracchoruin of Fhati ef supariorm

 interfecto iaviliuc nilit is posceritatem teilmanet. Guot si es mai maxime imponderot, tamen hec anielo semper ful, us fariaiain vistate partam glorian, non invidim putareth, Quarnquara nonanall eut in too ordiag, qui nut e2, quae immineat, zon rideant, nut as, quan vident,
 tionempin meumton von crofevdo costoboet verasti - storam auctorltitom secuil malti, non solum tmprobt, verem etian inperiti, of it heod asimalvertisocis, craleliter et r gho factum esse diserent.
1. Scturnief. . . eompuine : What do you know of Satmpinus?
 .....duernat: Why nre differcat mocls used ?

 stroction In shis sentencs.
4. Writo in fall and abertly; "On the ISith of Jure" Explisin the form of dato usod in these iprechis.

\section*{B. Trasulate:}
 sentoutiam C. Caspris, quomani hane is la ro publica viam, cuae popplar is habetar, secutus est, scrchsse minma arent hee anctove st oognitore hejure senteatise milh jopalames turjetus percimescenci: sin illam altertm,
 periesloram mationos atilitas reif peblieto rincat. Inbernas cuim a O .
 ocstentians tamqnam obeiden perpetume to rem pulikam voluitais, Intellarnim ent, quid fintevit inter levilatom contionotoruta ec anliatra rere popalarom, walnti populi consulentem. Vilee in ieis, qui eo popzlaren
 Rournoram smptonstam fort. Is ot nadinutertias in cuatodian cives Romanos delli et sapplifatinpern milif decravit et frefies henterno lis maximis procnilis affocio Jam hoc nowiul delfime est, quil mocnstadime, quassitorf gratulationem, indici proenkina decrevit, quid do toat ro ef chust jullicart.
1. Ese mine vide gund istasits. Dxplain the caso of ara Hav dics nescio an differ from "I don't know whether."
 Een. Whan do two nogntives is the same aculencer iot destroy each pilter!
3. Nirdiustertilis: Derive tho word
 and his mrguments in support ef is ) Where is lis apecch foial!
5. What was the result of the delats y Where and vhen did it take place 1

\section*{II.}
1. What noans of the end dectension are foninine ?
2. Point oat the pecultarlion either io masoming or doeloasion of 5 cutiodn, opitiontas. familues, Puads, athu, oomitie, mitis, ignis.
3. The fellowing worts ndnif of two or mone meninges, according to
 canít, dadit. decort, selum, putente.
4. What adjectires want the comparative esly ?
8. Givoorampleato alow in wint different nays the Kngliah fnfuitive may in roulered in Intin.
6. Arrange ns Itexameters:
(a.) Tompoes as fronters moris nanguintis piagis.
(C.) Atque latum aumens fenda jan verbarat alios.

\section*{SECOND YEAR.}

LIVY : Dock Is, Grara 1-10. Hotack : OdFH, Book I

\section*{Thus: Thnis zowah}
A. Trasiate:

 hooom Sarvini Tullies etue, Tus Anci illi dro otsl autect senger pre







 Terre ifitur oam arcare coutamoinm taterlan eos stimulatas. et quia

 lageven fucthres videhatur. Ob hnee ipsi refi imidive jaralumar.
1. Tim Ansi fiaii dus. Camment on the caistruction of this seutasco.
 Givo other moner seof the sontitia.
3. Pout ceuterimuin fere onshow, groit Tivashas. Parse quad. Traze late rith tho readisg ywain \(R\), and siate the ob ection to it.
4. Id domur mee dedecu fire. Why is tire infieltive usod?
3. What rensora are gircu ter killisg Tarquinim and not Sorriun? Are they exprasod in the atat forma ?
6. Tura (a) into matio olfifue, (b) iate arctio recta:


 heorolinn, satiar ihesa diu. . . oincultarie dosinis.
7. Apply to tikn trei boal of Tivy the uraal toets of the trulh of a narrative aid atate riantss. Wan T.vy a Roman cifison by tirth 9
B. Trenalalo:
(Acdetional for a Find pr Sicano Clens.)
Marcerias atany is elte rogibus
Oet proseliliai er ialeo lecu- meuna
Sust goise curricaio pa: veceus Olympleam
Collegisso joval, mining po forvinfa
Evita's rotis, pluague nubilis,

Certas tergeminis soleso 10ncribis:
Illam ti proprio ecodidt borres
Quitguid de lasyas zariviur areis.
Gavikusum panfor flumere sarvalo
Agroe Attaltis cocul Lituibus
Nungusse dinorain, ut tizle Cyprls
Myitoum paldis nants socet pare
Menatem Ienris fixetibus Afrieum
Monatort melnects otnre of oppidt
Iaudat ram sif: nok refivit ratak
Funstas imfocilis zuwnerlem pari.
Yet quil aoc vateric prenla Masoied
nec jarterm soindo demere de dio
Sporait, huze viriti nontira sulb arinto
diratus, puic at aquas leze capùsacrac
Mulfor cyerin jevant et lituo tubno
Bormantus socifus bellaqua masilues
Decestits.
1. Mecenss atmis puite rentions: Foplain this line How in Mnasonian desoribed eleowhare by Herace: How and when dil thay lrone each other : Vhe sers the regaits of tho acounintasce? Gire the Tatir names of antectore wa descondants fo the male lise.
2. Senf goor surrizulo.... Tsumalsto asal esplain w. 4-8 acconaing to se difforme peactastion.

4. Enctertisn forriis jfucthous 4 fícons, Ixpluin syntus, and Illustrate it by queting a lite of simithr measing irom the ssme \(>00 \mathrm{k}\).
5. Inlochis priperieu mati: Quple ctiaringtanese af thir conitreetion.

7. Parsi, piving cilef parts: exwit, elscidis, weans, resecrs.
8. Bern:

> Quem Aren ent hapoe lype vol aiori-
> Furifil lakitir stemens-
> Pones jambes sive fanma-

\section*{1. Trualve lato Latin:}

Haploriel crosod over into Jtaly with ne great arny, nad if bo hail eetis alle 0 iofin his brothar the Rimin empire wonld heve bsea sainel

 Mrimiris. These too vanquand Hudrabai.

\section*{HOFAOE: ODR B, EOOH IV.}

\section*{Thers The mova}
A. Trinalave Ode II, wv. 1-24:

Y Comori_han to dociliz msgegitrs
Mavit Amphian lagí/es raranto-
Tugue testudb resinare sepictu Gallich nervis,
Nee bgaar olitim nejue grita pure at
Diritum mesisis et amica rongxis
 Appliser sitres,
Qume vial litis equit stias canp is
Ludit ozeallim mossulectue twegi
Sluptinivir erpues of nelozo peotovs
Crois marta.
Tu poter tigran comilenjar ellas
Dicere of rivoa coletes morari:
Cessit inmmis titk blundierti
Janive anhe
Cerberis, quanirs furiale oentis. Moniant angaet elpat ejns atequt
 Ono tritiogui.
Quin wh Ision Tityecgan valta
Rait inties, IteciE urni paollom
Stica Alsm gras Danía peelas
Curmine rublee.
3. Trasalate Dce XIX .

> Thend monumentum aure prosianime
> Regalíque aito py nimitom altivg,
> Qood ase intiof olax, nou Aquilo impcees
> Posis diruen ant ituacmerabilis
> Atnarux aspios of fagy tompcrin,
> Von omis motian, tullanme pas mel
> Vitario Litatiamil liegue coo pestera
> Creman Labe recens dum Eopitioliun
> Scondet enm tretas virging pastitec.
> Dhas y 5 x violoms olacreplis Auflas
> IEt que jwipor nquas Danmas egreitiven
> Rogravit 2 ofulorem, as hurnili potern,
> Priacept Aoellium carnet nat tralos
> Deduxisemonos. Sumsemperlian
> Qaneritum merits et nihi Dolptics
1. What namis in thas axtpieta smatiegmiay in fielensina ?
2. Whet fathations of Geech phitas are Eound thoviu? Quote cthon frowir thie sam llock.
3. Walle explanatory notes on:
(is) Mont Asaphion lopides assendo.
(b) Quia ef Irion 7ityoegus viles Finit froito.
(c)

\section*{Feakit Likinnaw.}

Multnquarpor mal'
(d)

Sezade oxa tacifa vixqite poitifes
(e) Eequa payper equae Duknux grastian
4. The dutes of somes of the Odes in the Thint Ronk fray ls Cutorrod from interanl evieresog. Quote the Iatlo lf you cts.
5. What fact dees Harace mantion aboet Ifimelfia this Book: Givo the Latil.
6. Qeate liara to ahow the qumatity of faltial syltaliter of: nitis, Aprole, Satians, leontair.
7. Amange is lyric verses:

Adde qest omnis pebes tilt cramit. -
Fhoribax hasia honor semper non ost-
Nec anda Slygia coliboter.
8. Form suntences to show in what rarions ways "without "miy be irasalated in Letifi.

\section*{THIRD AND EOUETH YEAKS.}

TACITUS : AOMDOLA. TERENCE : ADFIPIL
JUVENAL: SATIER [II, X., XIII.

\section*{TisE: Thase hours.}

\section*{A. Tranalate:}

Comens Julies Agriecis, vetern ot illatri Foxojnlieneisen coioain crtus, ntruingne arimin procuratorem Cassirm lintinit, quas equesiris
 sapieqtheque notuk, fitqne viptutitma itam Cai Cxesarie mestites: sançue M. Bilunim accusare jussas, et, quin ahunerat, inteofentrs'est, Mutar Thlia Procills fait, murae castitetio. In hnjus simiadulgoutiapue elucstus, per ounbern honentarme artium cultum paozitiam adoleasostinnque trunsogit. Areebat wiu all floceleis poccaizlam, praetor fipias bonam integraquqe naturam, quodotation parvelas sedem sc unylsimill stulicraal
 tulxtam ac bere compositum. Memeris tetiec, soliftrm ipatrs tarrate, te

 cratreniseof.
1. C. Jhlita Agrioday Is thit the vian fortur of permos' names In Tacims ? Give the date of Agrlobla': tirth in English and Iatif.
2. Vocri of ithonti caboia ortus: Glve azcient aud modem name, and explain egithets-
 meaning betvece delownt und the otker seading, fatherat 1
4. Prearator Cocseruas; What wore his dutien 1
5. Se....hamrias, ni....ceercaiper i Explain the ree of Aamalise, anil ilinstrate it by otser oxamyles. Write thia asstense it matio rectu.
B. Translate:
 Dum hric ahnogaare. pricteres auten te alunt proflcticl Cyprum, S. Hesth,
 Animis tili peadee bhilling spero reteres uasen biot ages.
S., Nusquami pedtai. peril hevele: hac lili spe hioe incoperunt. Sx. Tlinet :

Vt fin ino articula eppreasis emptae mulices
Complare et fiem hthe Ma quan pocto Cyprum

Sil ant; reforixarit res I 'tune demion zexis 1
Quor timerit uld ersu 7 ot et antitis perdere
Quam ant alane manere lam dih aut tua persopui.

S.. Hovino tlo dignamat? hiociat indipern Alschinim?

Per oppelssonem et hine ni ecipece portulet!
1. Hec acto, aviaus abit poedel : Parso dalf distinguivh nopi, acio.
2. Mioguam poden t - Dt in ipss erticulo gppreseit \(f\) Supply ellipses.
 will a diEtemet rseding for us tum.
4. Eefrimeril res-Aurifierier: Parse and conjugate the verles
a. (a) Distinguikl laygse d'oc, laugne d'vil, and Jarifo tha namea.
(b) What tracs of Lasian cases are found is French 1 Explain ther oitgin of socis Preuch formes as finiasonto
C. Scau:

Gui volia eniversis et popula ptaceat, Quorusa opera is bollo, in otio, a negotio Sino quieque tompore usnat sine atuperbio.
7. When and on what cocuston mas thin play firs pecfermed 1 .
C. Traalate:

\section*{Confor}

Condursam hatronen, hacesilta ralfone coepta
Atqne dolo prinos eumm jan an coligett kries: Coaler ot has, vetoria qui billast prowdia tempii Pocnla wloctutuo rok cinin es poptlerum Dona vel antiqua potitus a roge canoms. Flace tbl si mou suin, iminor oxtaisacrileges, qual Banlat havanati fomur Ilercula of fariom pean Neptaxi ; \(\mathrm{g}^{n i}\) )ractocikn de Custare dseat:
An-dabitat, solituin totam centlace Tonastem
Couler es antifica mercatoretaque veneni
Et dedisotnifers eario hovis in imane, cirm gio :
Clanditer adversis famoxia slinia fatis.
Haec qucta gars seoletum, quac streka Gallieus urbl! Luqua is Lasifero, donse lis oceint, sadit?
1. Sive the goaitive is the sume numler as: foseir, estio, prouecordio, ixhbr, sestertin.
2. (a) Quante (daware) Facativin iandat neosiit ojontem Sportula.
(b)

Wes ceris pila, chaturies
Egregias csulas el cositu diandici.
Write explanntoty notes.
1. Tritulata lato Tation .


 man whio tak titen the necoy wodl! harear father on hu nass Tho
 there. "Then at the thinf' exclainivd lis mastor. The foslith alave coufesuad hiserine, ind she mantor reoprowd lis woicy.

\section*{[Afdifionsl for a Fivot of Socand Chase.]}

Temalinto sha pansage, not telous aem-Lum ince in siarss,


 billen in Orfiriess, idditionne qui paswn soetroa gulusbant,



 eonatikerss at hoe gculiua duccores cifiomirs, hextait, fimmase mimsa

 rocaporandae liboctatis ait servitutis sentamen initian form.
1. An earoare of tho "Enpinical Stage" in theStenceof Thnemige.

\section*{MAFITHMATTOD.}

Framiner. \(\qquad\) J. G. MacGmeoch, D. Sce

\section*{GDOMSTEY-HLET TEAR,}
\[
\text { Arric } 15 \mathrm{ra}-10 \text { A. if m } 1 \mathrm{~m}
\]
1. Strafit lifer ine (rawn theongh the rigi.as of a pralojogram parailel to its disozals. Trove that suction parallelogram is thas fomed Whrsa anat is twies that of the asigizal panallevgrat.

Yi- It a straight lire in divided into sey two paru, tho aquape of the whob line aud of orie of the parter neo equil to baico tho rectangio com trisad hy tha whols and that pard wgethor vith cho squms of the other past.
3. Descrite a sygarn which shall ha aqual to a given ficfitineal 4 gtr .
4. The squates on thb diaconalis of \(n\) traposines a-e tepnther anual to
 containal ty the ailes which ave parollol
3. Bqual cactrtion acrete are ecmilly distant from the metho
Q. \(\triangle B O D\) io a sug enal of a delt car of by the thart AD . AB and

 angle.

 tait ars bfected by the circumference of \(A\).
8. Irserelbe os circlo is a givea triangic.

9 Thacilie a dicila alout a girua rogalar pontrgon.
10. What projerty nust a paralologzana lava tian a circo nay bo iuscripatile in it
14. If the caterior aggle of s trisgige be bisectod by a strialigat tine whice cras the bost peodeced, ths segastets besween the fissoting fian an the extrumitias of the base hive so oae azother tio mame patio whick fise abaceat ablen of the sivingle hive.
12. Flua a meau proportional bowecn tvo given atraight Luos,

\section*{ALGKDIEA-1/HESE YBAE.}

\section*{}
1. If angantity c lo s connum mesure u? \(a\) and b, It will also mature the sum or diferetivo of any mulitples of \(a\) and \(b\).
2. Fedece to itg bowart tems: \(\frac{r^{2}+r-19}{\Gamma^{3}-5^{2}+2 \pi-3}\),
3. \(11 \frac{a}{2}-\frac{6}{d}\) tien \(\frac{n d=n}{\mu \mu}=\frac{n c+n d}{\mu c}\).
4. Finil the vatno of \(x\), if \(\frac{\pi-7}{2+2}=\frac{1}{n}+\frac{\pi-1}{2 r-1}\)
5. A bocy censicts of an allgy of throe raeniv, A, B, C. It contsing

 as of A. y yinf the miss of tre bedy.
6. Givonthat \(\frac{7}{i}+\frac{y}{c}=1\), and \(\frac{a r}{c}-\frac{b y}{c}=1\), find \(x\) and \(y\).
7. If \(\mathrm{Y}_{\mathrm{a}}+\sqrt{h}=2+\sqrt{f}\), tieg \(\sqrt{a-\sqrt{6}}==-\sqrt{2}\).
8. Selro tho equations: ( 1\() x+\sqrt{a^{5}+a^{2}}-\frac{n a^{2}}{\sqrt{a^{3}+x^{2}}}\).
\[
[2] \frac{3 x-5}{x}+\frac{3 x-10}{x+5}=31
\]
 prothot, \(10 \pi\). Fins the equation.
10. The alference of two numbess is i; tha differenes of their cuber, (3. Finc them.
11. I pat a number of bille atath of wifh amomis so either 57 or
 its Ameart. Hev many ehoques matet I lrav.
12. Slims that the sum of a terns \(d^{6}\) an arithmetb seties is egmal to onc-half of on thees the sum of tse firis and lut fermu.
18. Thery ane twa grometrit krien whase tecond terms are 3, and whens vums od vigiaitus am 20 . The dham.
14. Irow that tho geonstre nem lowern two quantitios is the


\section*{GEOMERRY- SECONSD YEAR.}
1. Similar polygoss aro divisilile fote the same namber of simiar triaugles, larizg to oae another the same ratio which the polygosi haves.

2 Parallolograms shost the diagosal of any parallelogram are simitir to the whole and to ore another.
3. In rightasplod triaggles, the rectiliseal figare dencribed nyen the sife opposite the right anglo Fs equal to the nitillar and sinilarly descrisei rectiligeal Agtres tyou the soler coutaluige che rlat angle.
4. \(A, B, C, D\) are the midile points of the silen of A quadrilitani. Shew that AECD is al parallelogram.
5. A Aad BD are perpondicelare let fall from A, B, the ostronttive of a diameter of a circle en a straight line CD which towehes the atd BDE are togethat equal to that of the triaghlo ABE.
6. ABCD is a gendilateral riphtangled nt C . The disporal DB tiecets tha angle ABC nand natest the angle ADB a riphtasgie Slov that the aren of the triagie ADB la to that of the triangle BDC as AB to BC.
7. The tanpent et any point, \(P\) of a pamboh biects the augle between the line P8 dram through be foctis, 8, aud the perpendicilar PM on the directrix.
8. If a pair of tangeats he drawn from a gires point 10 a paualola asda line be drumn shrougth the joiat parallel to the axis, this limo liscots the Hae jeining the psiste ot sox tast of the tangante
9. If axy number of parallel cloods bo ćrawe in a paratola, thoir middle poists will all lie ou the lise parallel to the axis which pusies throagh the point where the tag gent drawn garallel to the chards meets the parabola.
10. The mrateht lives draws from any point is an ollijpec to the foci ano logether ecqual to the major axis.
11. The taggents at the extremitify of a focal clord of an ellipre . intersect in the directrix.
19. If the tangeat at xny polta P of in ellipere most the minur mis CB prodicell in T, (C terag the centre of the ellipne) and If PS be drawn at right-angles to CB , then \(\mathrm{CX} . \mathrm{CN}=\overline{\mathrm{BC}}{ }^{2}\)

TBIGONOMETEY AND ALOEDRA.-SECOND TEAR.

1. Expreas la circular mearure an angle of \(\mathrm{A}^{\circ}\).
2. Paove: (a) \(260^{2} \mathrm{~A}=1+\tan ^{2} \boldsymbol{A}\),
(6) \(\cos ^{2} \mathrm{~A} \cos ^{2} \mathrm{~A}=\cos ^{2} \mathrm{~A}-\cos ^{2} \mathrm{~A}\).
8. What are the rehes of tan B when B has the valaes \(0,15^{\circ}, 10^{\circ}\), \(1350,180^{\circ}, 270^{\circ}\) reipsetively.
4. Prove \(\sin \mathrm{A}=\sin \left(\pi \pi+(-1)^{n} \mathrm{~A}\right)\); and exprenns in terms of A \(\tan \left((4 n+2) \frac{\pi}{2} \pm A\right)\).
5. Find the value of \(\operatorname{cor}(\mathrm{A}+\mathrm{B})\) in terns of situee and co-lines of \(A\) and \(B\). Hence dednea the value of cor \(2 A\) in teries of sill \(A\).
6. Show that \(\sin \mathrm{A} \sin \mathrm{B}=\sin ^{2} \frac{1}{2}(\mathrm{~A}+\mathrm{B})-\sin ^{2} \frac{1}{2}(\mathrm{~A}-\mathrm{B})\).
7. Expreas the area of a trianglo in terns of its slides. Prove that is is squal to \(\frac{1}{2}\left(a^{2}-t^{\circ}\right) \frac{\sin A \text { ani } B}{\operatorname{in}(A-B)}\) and \(a, b\), tbe epposite sides.
8. Giron the aggles of a trianglo and oze side, find the other sides.
9. From the top of a turner 7 feeb bigh, the directiou fil whick the trip of a highar fumary ahimanay ir reen, to inelisod 600 to the vertiont.
 chimey and its distase froze the tower, aesuming boch baili ou the same harizontal pathe.
10. Fhat the number of permatotions of \(n\) letters of which \(p\) are \(a^{\prime} t\), \(q\) are b's, and \(r\) are ols.
11. Shew that there are only \(a+1\) terns in the expmanion of \(|a|=)^{\prime \prime}\) if \(n\) is a positlve inieger.
12. Frove that with a givea rabe of interest, avd for a glven tine the compernc intarest on uny sum is proportional to the printipal.
13. Giren \(x^{y}-y^{c}\), and \(x^{n}=y^{b}\), fod \(x\) and \(y\).
14. Five balls are drawn froen p box cototainiag 12 , of nhich 4 ave marked. Find the chance that there shall be tuang them (2) 5 mo only, (2) tro at leasi, of the markod enes,

\section*{EXTAA MATHBMATIOS-SBCOND YEAR.}

1. If two stringlt Inaen be panullef, and one of tham be perpeailicalar to a plane, the other mast be perpudicular to the same plane.

2 If tmo straight lises drivn from a given peiat to a giren plane art equal, they are equally faclised io the plans.
3. The loci of the points froen whiol perpoedizulare equal to a given stmight lifo, may be etrawn to two giron imersucing plunes aro atraight tines,
4. Prove tho Rinonial Theorom for tractienal iudices; and shew that in this cuse, the number of ternas is the exyansion of \((1+x)^{n}\) is
infnita. Intinica.
 prestion ly monan of which, having given ite loparithin of one of tano
consective niribers we may find that of the other.
6. Either expaad \(\frac{1+2 x-3 x^{2}}{1-2 x+3 x^{2}}\) in ascoullug powern of \(x\); er resolvo \(\frac{4 \pi-1}{2^{2}(\alpha+1)^{2}}\) into parthal frections.
7. Bither prove \(\tan ^{-1} \frac{2}{4}+2 \tan ^{-1} 1=\frac{\pi}{4}\) or ahov that tin \(\tau^{\circ} 30=\frac{1}{3} \sqrt{2(4-\sqrt{2(\sqrt{3}+1 .))}}\)
8. Srew thet if a be the cimular reasume of an angie betwect \(0^{\circ}\)

 Insmale of \(10^{\prime}\).
 powlev Autoger.
1). Slast that \(\operatorname{sos} z-1-\frac{2^{2}}{12}+\frac{z^{t}}{1 \cdot 224}-2\) o.

\section*{PHYRICg}

Examiner.........................J. C. MıcGazooa, D. So

\section*{Matmimamical IHYaige}

\section*{}

N, Ei- Vo more than ten quations to se apacred. Condidutes of
 swetiose warkod vitt an ast ríb tove tha fogher velait.

\section*{A.}

1 A partiela mazaz come \(\cos \mathrm{ft}\), whila its retheity increases mifocmily tams 221072 ft . per sec. Tint the the necupisd and the acteleretiot. 8chra Tilhout vilig faraziloo, if you tan.

9 If the compoan: valocitipe of a particle are raprestulod in mathtuilo and direction by thece siles, \(\mathrm{AB}, \mathrm{BC}, \mathrm{CD}, \mathrm{d}\) a quadribleral ABCD ,

s3 What ie tiso form of the hocogrsith af \((a)\) II pint mothe nith a uniform welccity is a maghe lises (b) a poiat moriag Fith an meetlars

 orogerties of the beclograph mahe it usefal in the solptive of liacaatio. progerties 0
 partcles are peciected from the sop of an jechinec plase witt vebofices of 30 fl per soci each, tho sue haring ar incliation of \(15^{\circ}\), the othot of 30
 owar blat the top-. Fiad h.
os. A samine the Iroposition, ealled the Paralletogran of lictavions, lea the direction of ths fernitant a xik, prove it for the migailuie of tho faut tant angulor velocky.
 of momontum it jubligen - What is tha dertvod usii of impulse - Finil ie cturatuas.
5. If A, B, C, be thro forme, whens reanlent is rims, and if \(a, b, y\) he the aiglea betwees the directione of B and C , of A and C , and of

\&. Shou that the knatio orargy which a hedy gains in falling throxpli 4. height \(k\), is Jus saflident to Iff is through the seng heiglt.-Staco the

5. Why is the bet of a miliwny iselived at a bens in tho roali - How would you vetemine the fuslimitou?
*1s. Bher that then "bob" efa "mathametin" pandslun, swinging tircarh vary small angles, thes is unsion waich it shaplo Larwouis.-Do termise the eaeriy of the tob mass-n) vheep the possulume (lecigth-i)
 a somplot swixg is \(t\) Exemink.

 is in egnisitriam of a megh inviatd piane.
812. D dind the centro of nasa of a syiten of partieler- Tiad his distimed fron ary givea plane in torms of tre nassos of the paricies nid their diesen ces from the some plase.- If a forcs ante on a badr so that its drection pascos throught ile sebtre of inass, it prodnens motion of translutive unly.
*13. Shew tize the herizoninl stralus on the hingee of a doot aye openhl, ovel fat shifrowemt in terus of the woight nind dimensions of the doos.

\section*{B.}
14. How is the "diagram of velocity" of a syatem of jarticles rolated
 oikig, reposeris al| wo con kaow aboas the valocty of the eysent
15. The olsage of merabitum of a purtitle vilh mase equal to tho
 Trentio is equal to the sam of the clatges of necrootun of ail the [atric) of the rystom
"16. If a syatem of fartites is reted ea by by exterat foreas ite ayguiar rameatum will remaía coastant.
*17. Cime that the livetie energy of a syserl of wo fanteles is aqmal to the limetic enargy af a pumbe with- mass ecyal to ite mues of Liv vhols syptom aad meviag with the velreity of ite aentre of mass. together vili the kinotio enetryy tan to the motion of the prots af the
 Q a sytasil of any samter of pardelos.
*8. Coapare the time connied by a plooe in rolling frou rest diwn
 doun a enoo, h plane of the samo inelimation ma leagth. (The motent
 ise entre is \(\mid \sim r^{2}\).

\section*{EXPSELMZNIAL PHSNGES.}

Aymis 18-8. -3 v. प. 70 6 7. x.
N. B-Cin'y ton quations to be ewnowd. Cranifletes fro Firstedqes
 laue tho miliar culsa..
A.

 of liynide sud gaven? Apernilog to the pulectar theory, what is the Gintikcicn betwean solids, Iiquifis, find geme ?


 caficates 30 ns bes
4. By what two distinet exporinoutal mathodm may a gae be moed as a. hemuinetric sulatasion? Deacribe soine oue form of ass themometsr. In what mepecta ate gas thermonnters aperor to liqild thernometers?
5. Describe ssme form of eatorimecer; pointiug oat its nexia and Alfocts, and suutrg slar courections yoa wotid topy to any cruce magtrvicens yoc niglt make vith is.
th Hoer wonl you titermine by exparivent the anmeation preatase. of the rasom of anf litwic at a giten semperatre ! Accoat for she formacion of dew.
87. sketen the ernaminal treozy of heat. What relation to thie theury has the oropoltion: Heas is a form of eremg' Explan avord. inf to this theory tho boilisg of a lignil, the eublinztive of a voill, the develegurat of has in chemical comblantion.
 A nad B of as squilateral triangle ABO (oids -o.) Thad the dirmenia and ragnitode of the fime exeried on a pole ol itresght 1 i placed at C. Sasich by linos of farce the enugerit fied in the beichbourlicol of the poles + in and \(-n\).

 in an Alecroneitre series of any salstarers A, S, C, 19
419. Whene wisa the elocide circen of a galrants luctery Ieribe is enart ! Fow wotli soc pie it to crire, eny a sewing muching If it is axpsaded in the prolceition of beat, find the amt demaopet in a nive
 eurynet of atrangth o hice beos flowing for t sosoric.
11. What are the phenomoza bind lives of Yioctrolysis? [fov aro thy itilisid for tha meamemant of the evetrin coreort Hew, fce dectropheiog?
412. Slev bow a vave is set tp by 1 disturbance in an elatio medinn 'Trio wavee of the sare loagh, ampliazle, and form, travelling slent tha asine lime of papticiel in opposito circetioat, give the to tho stuediay vave. Ilintrita by thagrim. Watose the inppastasce of tho atotuliay vare ba souml?
19. How vould vocidatarming the sumberper seemin of tha vhorione
 fon nid tlie newlet, how woald you doteriviae the leagth of the vark of a nose of that pier h.

\section*{E.}
14. How sme isathemal aud adikatic lingmes coastraceef Whas mhtion hedds butrecon the lines of tha fermer and those of the later? Dran roephly tio joctirnmal dingran fore a gas, and ene it to fliments the "ceraíal trimpenaiture,"
*15. Takine the reciprocal of Carnoc's Juaction as the nessate of
 enguop sad ehow that in anch an ea gion tho nutio of the howe received
 the teraposiuto of tho avarte and refiliguator.
if. Thid the woel dans in curriug pa ant of elsctricity from any one panit fo any other point in the no ghlenricod of au eloptrificl paricle. Heace flod an erprexiba fir the aloctric patautial of a pefat.
217. No Nectris foece has evar basa olsinved itaids an alectrisind
 Why is this proof the aoel cyaiclaikg voe watibl ve hovo?
 with is liown charge? Pind the exyarity of a mphese in tocms of its dimaesions.

\section*{ASTRONOMY ATID CFTIOE.}

\section*{}
 higher molimes
1. Doseribe the Sovtant and parare the jroperty of the roatilig plane mfrerer on "hich is la lnogi.

2 A renl (mage is formed hy x apherizel zcneare nireor of a snal ebjice of the priatipal axtk. Shav that the rregnitades of object anc Inage urs as mheir distucse fron tho aityor.
 of ather inolin B, C, D, ke, into a medium L , its eotrus in g is the same 13 it is hss passel directly foum A Iuto B-How dooe this propeaithes faclifata the -alcylation of atnospherse refmetion 1
4. A haninete point mpvas on the priseipal aris of a couver bas Traes the ormmeor of patition of tha comjrgale focta as the lanfaves


 masy. Llie dilmeusioss of? the imago bo msomertd f

e\%. What cosdition most he tutiefled that bro this igasts in opethet rivy farn it aclugmotic comhisatioa?
8. Dofie nifitod ard nsinan, ribit osogsion anil decinamian, and celashion sutit ade and ionginide. Illestrete by dlagrans.
0. Haw worll yos inetermine the obligrity of the eclptic 7

10 What is the sause of ;wilgat? It viat latude dees I lab all tught at miduemmes 1
*11. What obeerrations nould gou make te esumblish tha Precesalou of the liymeseres Nhat is tiej flyseal theory of this phecomenot?
12. Sliew hov has mas of the stan may bo de:ormivet.
"16. Hew are the Irunufor lhes in the saliar spertens ascorntol

\#14 Staw Ltrit a solur eclips will pecar at of aunt eondmetion, If the angolur distance of the tha nad meon as peon from the eerith's cestro if Det than \(s+P+S-P\) whore \(s\) is the macel's anil \(g\) the men's cembenthmeL'r, \(\mu\) lis moon's, and I the ona's breisontal pamilhe
10. What is the ehorbeter of the apparent pikt in tia heavens at an fuforloe plaset 3 Aurount for it.
"16. How monld you dotcxatiae tlap periosic time of a planet thane ocble is rery alighty kiclinet w , flas ocliptie?
 deverisintlon of tha fun's dintacve from tho Borlh. Why eas that mot be dure ly ploer vations of paraliact
18. Btem that be acceleratons with which tho meen and bodiea beat the-eath's suffee respochirely fall sovaris its ceaim, ase Leversely propostional to the sçnarse of thit distances from is.

\section*{HRHICS AND POLITECAL ECONOMY.}

Enamine . . . . . . . . . . . . . . . . . . . . . . Thanuyal Bish, D.D.

A. EIH:OB.
1. Distiagalish letween Mutal anil Maral Puineophy:
2. By whad ncene cau the will be serengileted:
3. How miy the w.Il he malnend ?
d. Epsoify tho lava ut the will.
3. Prove that the desino of scetiaty is an crigian principlo in the Lumas mind.
 wat of erline.
t. Man \& responsible foce lis opimions.
8. What is Bualec's theory of tirne ?
a. Mornl judgroanta suro ixtuitionas tupt grastulliationa frow bapcilEnct.
10. State Anecim's amgenent for the existenee of the Deitr.
11. Produco firset figanionts agninut Meterialifm.
12. Excoptions to the law of Unifornity strengthen the smgurert fron Derign.
13. What judgenent aboak te form of aseeption practiod to asve lifot.
14. What dutits arise ont of frienduip?

\section*{8. PULDICAL geunomy.}
1. Defin Politieal Zonneusy, Give the dexivation ef these terms, and thenic dectioe the zature of then sfierce.
2. What part do >lysicians perform in the woyk of production 1
a. I' ararchats ave nce produces, how toss then libour jeaofit the comasaily ?
d. Why ia 1 yari of rabinn dath elenjer thas a yam of wrolen !
2. Divian the labcur of nakarga pin into to sevecal parta.
6. Thoes the emplormeat of laboareatiog wachinsry factease of diminith the faznand for labenvers I
7. What if the asum Imit of exchengo tetwen pations-anl betveen indiridualsy
8. Why ananot aliamonds bo ocavouently wool ss amacy ?
5. Why is mocog coined? Why uve its eiges thanfered ?
10. What is a cocarciga ? Why called a poun' ?
11. Show that in rnibing a rerente direct cazation would effect as immease suriug Why thea is it nut alepted?

\section*{ZOGIC AIID PSTCHOLOGY}

\author{
Erawiner. \\ \(\qquad\) Froyessoit Lrali, Lif.D.
}

Ther Thites houex
1. What is the riew wo havo saken of the mentel plemomenn 1 Cinalify then ecconliagy. On what erounds dco Sir W, Hanillan, se whtik erroasonaly, beliery to tho oder melloc of ilnotification? Gi"e hit ulana fination.
2. What fonispes is milh out elementacy lifess? Hov are these ofthervins dolienited! What takes place in mind afice thoso idens lave bean ditainof?
3. Dititugaids beorcen gencmiliastion ard cleceffentor, und shew the iuppartanisp of this distincion in the matter of reoeoniag.
4. What istfe tree theory of rensoning? How doer ft not sonemubr elihar St. W. Ineilisu's accome of the aylogising proctss, whethor in
 reatoniaz, as being necthing more than the connotntion of atmerutes !
3. How may syllogime be divifcal scessuling to the foriboio mater and ilsit calcainl form-is olise woslo, tio relation of dobornination betwon tioe mabjoet and frodicata of the najoy permase in the one
 in tie ovice 4
6. What do soa endorstand by the moces and 1 grrea of thn mplh gism? Point ont the uses of the ssond and thri theres iespectively; and sion, by exmajle, hov it is tetter in must instances to recinn syllogisnx in thesp figares than ts matace then to the tres Explun the
 conslakion in tlo latter caso asuctod iate a gonerd?
5. Give \(a\) rchome of tho fuliseies necanding as thag nut vialatiens of the logical rulet. or ae ther may je wholly extiatozical
8. What is the doctrins of Mothad? Give the retaucle of the annytie anil eyat ietic mocheris
9. Elate what is forgited if: Deftultion and Divition reopocitrely, how thoof ari derived, and what puypeos tiof terve ta imitenments of method. Gitre the 72 es of esch.
10. What is Protnion? How are Probations dirided by refereace to they mation ferm, azd digroo of esgensy?

\section*{METAPHYSICS AND ASTHETICS.}

\author{
Lnominar...............................Brorssion Lfati, Li.D.
}

\section*{Traz: Thus \#) \#ns.}
1. What fo the apesial problem of Ontology 1 On what rutiousl

 molation.
2. Poiatoat iha mulatatial accoril batwean Plato and, Arlitotlo in their plilasopiv, uist villetamaing the spparoas diffrewio in regat 10
 Ariscitle prestprosedi ble "tites" and " ramideigma" of Plato.

3．Howr ild Thespartes datl with tha prohlan I－haw did ha trant it nure peycaolegienlly t Heay dses it zirwis in the philosoplyy of Looke， end in tae poychology of undern timas？

4．Ciin some acoumt of the conttorearer at between Realiam and Toonimalsm，or Cenepptanlism，Aering the Sorohatio Ages，suid truee is liswey to the preatso sime

5 What is the quastican ne inste is the thooties of Perception？
 ef＂immediate perception＂

4．Claseify ibe Emosions．Whaf is the plece of tho methetic emotion？
7．Clisify the thesties on that stbipet of Buncty ard Sublinity．
 vhide Siv W．Itimilice altogothor everlorlis er omite

8 Give acmue of thangermemis wish seen te fivorr Alisea＇s theory． Shov how Borks＇s condifiors of the sulhes anal beariftul ge to conl hn Aliown＇o thensy．Io is ayy objection to tho theory sham \(\mathbb{F}\) e kemase in every cavo give the constitkent elomeath of tho benuitiful or tho aublinge？

9．What is Art I Chasify the Arta．Into vhatkink may Painting
 more particalar acroant oi tho ecolesiastical sclionl of paisting，－its crigh，its mabjecs，mit iss taxalog mases．
 nacre Haritel nope or rangef 1 How act the otylee of Philias and
 Eculoturs，and what sces it now generically inclade of airuify What is the peculiar eloment in Acchitesture，which alneat singly diciuguihas


\section*{RHETORIC．}

Hanninar．
Pbonessor ITAIt，Le D．

\section*{PLETT L}

\section*{This－Exisis notzes．}

1 Cive the ovines of the diffoicat figarto of operch．Name tho fgaroh state the obyerte for whilh they ase enplogel，with their linitur calitions

2．What ars tho rules to le uloecroll witl regreot to ith sumber and creor of wirla！Whit ase che violatiose of hrevty！Dalize of descrlhe them，and whow whes thsy ace atmissble．
is What are the differeat attilta en of style，mad the conitifuas of ettainise then？Distingcish toween bumcir and with ant ssy what ur tors nuo charniterized by these cquaities regrenirely．－

4．To what pecslinitity of atylo is the torm Ocomatopaces syplientle ？ In want dittereni mags is ho tessarelor effeched

A To what，in onr language，doek wha usan＂tasta＂apdy，nul－
 thisee roopectivuly．

5．Vias sticnid be pecalistly aired at is the amecaces．Denerlio the tro priadips kindis of eanteros．Whast do yon muan br tho lealireod sontanes？What daea it somatires mosils in I Uscer viat cosditions ura digrosilozs ainíssible ！

\section*{シムEM IL}

\section*{Time ；Tisen houss．}

1．What \＆Bypotition！Eesides the reoperty of teing true，＂whlch alerio is valatille is nay knowinilua or inlarmatime，＂br whaz ethat atori． alario so valatic is nay zowin in or allamation of

2．Whas is the first generilzed themen：Hos is \＆defirad ）What is the usome mal tief scisntite eloment？How is it expoandud？

3．Wien the objget is to mbian ahstrase principlo intaligilie，on What fround noist the examples lie cheseas Dibfingtith betecen litis－
 cosdit onu niid linitatima to lo eblatrol？

4．What \＆Pernessins 1 Tartlealarise the dillenert lincest antacy，
 eosailyrad oe atteadet tot

5；What tre the menas of Pensasion I Undaz what geremal prin－ eifle nay theco be espresied：Hon may Disceiption，Marration，aait Rrpasitios，secre the purpues of Persuaicu？

6．How is Amslogy omployed in Argumant！What in Prohable Avgiment：

\section*{}


\section*{TIMR：THBEA HOCBA}

1．Dueing whore reize dil the Roman Empipa marh ita gesatest lintits I State as definitaly as you can itseaccoet at that period．

2．（iive ile leaing ereats of the reign of Jusintam．
3．When the Western Bmpley wis destroyed uhat King don took its plice in IGlys How leng die it laty Hew vat it destrof od：

4．Give al bicit asoonit \(\alpha\)＇londing Motamineluas couquents wha dates．
 favily foza tho fopgitaul livk of avions aud cuuctora of ciril ast ecelexiatical，Istery，Explath．

6．What yos the Golles Bull：Explail ils｜mpramace in lisery of Gemany，

7．Whn eroat Hghte worb Astaslisted 竡the Comnom in the wign of Edvare Illo \({ }^{\circ}\)

8 Whut ver the politieal condlfioz of Ingland on flo atotaian of Henry VIL． 1

9．＂If was she firat time in molem hixinry that relation las forexils
 or that the nev qiet of cricician had vobutrod not only to quasien tat to deyy nhat hat ell then rocaiod thopuitiary iruile of pelifical orlat．＂ Tc what dues blha refer？
 coaqueral tie Cstaptlo pary la Eaioje＂Explatu His binteumis．
11. "Eor Gemmay la (fass the virst was over. Plysiall \(f_{\text {, at }}\) leak,
 atothor had not yet been opened Ble ay for a time f the issenaiaility wi exhausiton Explatu.
19. Writa hriof rotes en any twa of tha following anbjansa Policy of Villam tie Conccurot rogarding Saxas hevs and cosutitution. Hivtery of Sandizurin from Unios of Calriar to ispa. R if of Citherizo L.
 Treaty of Theukl: Coble Doxsucis.

\section*{CHPMTSTAY}

Exandar . ....................... Propisseon Gnozen Livians.

\section*{NORGANIC CHEMISTRK.}

True: Tanen Hows.
1. Thomplorus, tha uxurel mineral conpounds. Prosove of mann-
 elemants. Micophatas.
a. Silica; its eonotititio3, rarioties, and ebemios thamaters. shicates: genaral charicler and muditieations.
3. Wat is 4 site! What 8 meair by the the terns " vencral,"


4. Chesify tha metals acoonlig vo the compouids which thay fomm.
5. Wint uro the pricipal netaral rcompounds of ifots, nid what cianres do they untergo under the teticn of the atmonplare, vater. and orgain matiol
6. Sote tha mode in which nitri: avi< actir upon matals, and the canspounds predoced.
7. Lnter what chenical eonditions does gell sppsar to yare besp dyjoutedi in quarte in Nown Sostix, ss indestid by skicomisid ninspals?

\section*{CRGANEO CHRMISTET,}

Tisit: Perene Hithes.
1. Give \(n\) procies statenent of the cherifal constisution of the follon itg vexponale:
(1) Cyrnogen.
(9) Mathyl. Mothena. Morly \(1 \mathrm{H}_{\mathrm{j}}\) dnate. MothylOxille. Chlo ralumt.

2. Pigmantiun of \(A\) eole Bhese?
3. Preparation of Cllocal Hydrato.
1. Stiom reintione botwen nerine of kituratel Bydcucarione \(\mathrm{C}_{4} \mathrm{H}_{2 \mathrm{~s}}+2\), fond the sujee of Monatomic Alctiofe; anl betweea the letes anit the ie ien of Volatile Talty Axida derivid fiom thime.

\section*{OIHMIOAL L.AEORATORY.}

Give a procia statements of the worl toms y you iu las Chemital Tainmaty darine the Winer Session.

\section*{MEDLCAL. CHIGMSTEY.}
1. Dascribe the two prineipat geete forming ttmogpherie Air. Fina-

 artion tabes place ila she plenemenen eomzonly callad "an explasion"
 Lioas ary ncitsary to prevent is escapo laty the gir of \& moral ?
2. What ano the peiscipat mataili paians liatle to oeenr it drinking water in the mining districts of Nota Ssatixt. Explinin in what Fay the
 Fue lich.
4. Dageribe carcitlly the proesen of tuating for Assemie in asimal
 3ary calaulations.
t. Glve a caratal deveription of Chloring, Hy-drechloric Livid, maid Blosding Pevide, alap a gugeril mexut of metalic Calorides. In what

. Gire a stavament of tio clastifustion of organic compounds, shat

 Hy irocyatio Aed, (s) Beawie, (7) an Ailmod, (8) Starch.
6. Thete fin (1) Strychnis, (2) Nomaia (3) Etiy! A cotnt, (4) Cun-


\section*{BOTANY.}

F̌guiver....................... Paurateon Gsomaz Lavzeos.
Pait I_-Deacyekr, 1881.
1. Cive a fouemi donaiption of the minate ueroxture of flate for regrils the linds of tinsee, atilt their acraxgement in the plant.
2. Deccifie a typical repolath sell; give examples of varhion in tha forcuof the woll, saumerabit the anbisaseoc forming tho coll'contents,
 grecus nat nomनtitmencicus.
3. Point out the ctatactre characters of wooly tisuc.
4. Deserile tha aukb of for aashor of tia tascuhar birases, atac encmerate rie peticlpal firair of vamoht,

\section*{Pane II Axoct, 1859}
1. Theary of Call Deyctepmont, and procers ot cell gruwlis.
2. Foint oat the sauct rodatiut in ponilian of each serice and of the pastis of each porles (or vertct1) of a ferfocs nower:
5. Compare tia struture and the nar wigenent of leaveg with the atraifure oul arrangemart of parts of tha fiovec.

1 Cinstify plante accondiag to \(\{a \mid\) structare of stem, (b) embtpo, (c) lead-vanation, (d) numbor of jarte uf lac furner.
5. Trawe the Gurelojment of the pistil into frut.
4. Dstritle the frait of the conmen eanlen pea, sni point out therein it resembles and differs from an orange in structuce.

\section*{GEOLOGY.}


\section*{FIEST BXAMINATION.}

\section*{TME: 'TWO ASD A- \#ALV H00RA}
1. What ste the diviwione of tha Qanteraney - Eugliala, Amerhan, Acailian
5. Whit ore the trpionl Loculitica in Nova Buetha and Xer Brinswick, and the fromations in onoly ?
3. Waks rewarks if ocfeceace so sequence in these localitics, and alan lifo.
4. Whate was the typical Hife of the Ist atad 2 nd diriaions 1
5. Gine the elinmartor of the sed division, and promituent phouonacest, etpecially in Haltian and vicinity.

SECOSD EXAMINATION.

1 What aro the Tertianion of (a) LSe Tharla Dast: ; (0) the Loacan Busiา?

2 Oive a detullud accotat of the memhery of the serieg in (a) the Purit Enion f (b) the Esudou Ilasla, (c) the Ite of WIght.
8. What is tha character of tho ngenties emplove th the formation Chs evrala uf (a) the I'arls Hasin ; (s) The bondon Bainin ?
4. Name and claseify characteliste fauma and flom of the pario Basia.
5. What is to he inforret from the ol anotare of theoo in nofecowve to lasd, wates, had cliatate?

6 Give facts in seforanee to the Clistiflbucive of the Terthirkes in Etropeanil Asla, namisg tha priseipal monntain rangor in whikh bliey are fousd, the elevation, and the period when the alevation took placo.
7. Whet aro the Tortierico of Awecta,-especially of the Wyoming
8. Of whac monntain aytem are the litter constituents !
9. What are characteritic fasna of the Wroming Pavin, and oorese ponaing fams of the Paris Hasin ?

\section*{10. Name pecaliar ninerals.}
11. Indieats reake aed miatralo of ocuiavuilo tmperatace.

\section*{THLED EXAMINATION.}

Trict ; Tro Am A XALF HCULS.
1. Malos as suction from Horifordehim in England to Suas is Frasce; describe the formathons tavermed and their mede ol oicurtebce.
1. In a section from Walner to Zoncey Narth, jarally to the Straite of Dover, describs be frrastions vecurring in dosecncing ooder
3. What io thin Woalien Raries ? Retweons whet farnations (oes it gecer, suil vhere'n does t differ from these in refsecuoo to conditious of fermation !
4. The arterian well of Grentle Faris-nhast formaions lors it rean: tnats? and whers dost the lowest comas to the smefioce and recoive the vatar mpply \({ }^{1}\)
3. Whare and in what formition is thy eatrance to the tinael works of the Stritit ot Dorer ?
3. What jormations ano recmised to fll-11) the break batween the Quiternary and Triaste of Nous Ecolla
7. Nane ani arnere geologically and soologitally tho thisty fossis given you ty the kxaminat
3. Nupe and arranes, accorling to Danaiy davifcation of 18\%8, the thity speciacas of minesals given for bf the Ezanizer

\section*{anIIMAIF.}

Enamiont................... Pponpretoz . . Gtscti, M.A.
THIRD YEAR.

\section*{Tas: Tutss avese,}

Trmines I Seliller's Ranuf wit den Drades. Da faltet seine Stime stmene Der Melsser ind pediete: Byveipen. Tat spritht; "Dea Drechon der tion Land Verbeort, schlagst in mittapire Hand 7 Tin Folni lonaist du rurtek den Onte 4
 Dein Hath, als deser Draelo was Din Schlance.fin ons Hatz vargiftot. Die Zwistracht and Veriesbes atilech, Dus is der wilompentr'ge Geast, Des zigen Zatht sioh frechenpirec, Der Urinasg heilir Fana zerictsh: Deuu or isiod der do Felo netabizel.
Moth zo gee man dor Mameltels, Gehorsan st far Chrsten Scrumec; Dean wo der Llerr fa solaet Griose Ocr andels hat Hi Nurchitse Prome, Dax atifcies ar hadl pom Erawi Die Viater liesen Orions Bund. Der Midhtan scl waske za erlitlen, Za biadjgea dee eigom Willon. beh 1at dar ettie Finnn heswag:
 Doun rer ica Ilorren Joch nikhitaijs; Darf siel nit soinen Kratar wele eohsitoks" "
 vociliervas, of mestelferad milt elinater than uner ilir Darh einlsien und an ilrean Horlo bovirtheton, obne anch bur za fragea, woer herkime, mas or fir Geoctifto tedbe aint tiollange or co weripugigiluthe. -Gerude
 alten Dthers Diener sitat rach for Verhane in iem nugchateten
 holea Stix rak wolich Fellem bereitet hy, bdise or flim Mite nelines,
 lohan Heurithumg erfrent, und dern eaber Sogn difir wisicht, nagt

 Armen slahan uater Oblint der "ā̈ttar:" - Jaecoso.

III Aur don Abderite.-Bamangelte doa Abderiten nife ai Dinfillen; aher seltur passtan ihra Rinfill asf dis Geleresthit, wo sio angetricht warden, cdor kumen ers, wenn din Gelegen het vortel wis. Sto sperthen
 sollten oiler wio kin ea sagoa vollten. Die matinlicho Folgo liavon var, dias ste soken dim Munt aufthuten, chacewna Allisthes ea sigen. 2 um



 bexaniman. Machten ssa (wetches ziosilich oft begegrece) ihpead onoa
 machen vollten.- Tithend.

\section*{Gramnatical ģestion:}


2. Writs the Genit sing, tnd the Noan. plur. ef: der Wurm, dis Wed, doa Vaseriond, der Thar, das Thor, die Eisendohs, der Wala, der


3. Give tho int porb uling. of the provent asd ineperfers Tedion, ant the pasf pert. of the rerts vergriak, rellitrivgn, sem, torlbervilian, wider-


4. Eaplafa the diference letwon vp, and fucp, equp, verlas. State, kiving oxi, when the separntien of the prefia tan nover take pleco, evell wist sypumatic romperad verts.
5. Wrete down the coapmatite and sajerlative of the folloning
 superiative with din to be hised give in examgla. Tmastito: The roan was moat beatititilly decuratod (veragit). It is exumady cold. 2tast lumily.
6. Ela gut puckriebenes Bach and elin guia gesolribisasa Barli: tivie
 unl oxplan the difference in the menning.
7. Lt maagelie deu Ableritem nie an Zinfallen. What change in the coantruetion taken plays it the indineot sjed in the soul, be pheed fist! Explain. When is the auril, verib placed at the esif of the chace? 1llatmie giviag two exaurples.
8. Uni nashdem a....nelion (II.) Analyae this sertinec, and sereunt for the position it hat ant or is nessit or. Whan is sham onomims. tise ia a coup- sent, unafectel! Wrile on t2,
9. Distivgriah Letamas imanm mase and alt and tmashatat Whas ste ive gater elosed i If yuu are my friex, well wo the truth When \(\ddagger\)

10. In vhat cens do yat malatitute the peut port. of the saxil of ancod by the Iyfuidias Writo an ex, Gire the Cernan of: He oughe to have doar lie duty (PIlisht).
11. What tit setmer who to deplet in thls peem: Nonpt ant den Draden; and what ia the noral expersaod is if 1
12. Transiate into Gorman ?

What is joar namo 1 Sach a fling is not to bo menen ercry day, Yot are right. Tho sre these get tiemsn/f They are friendf of mizh. No a vord wasyokent. Aro wo to spoak Germai, I Hare you been able os swone you to is the bester. He is more learned then jast. Having nad hie lottor, I aaswered is fimerdiaidy. Ho died withous Iosviag a vill Doing ill, 1 wuld mus igw.

\section*{FOURTH YEAR,-JUNIOS.}

\section*{Tike + Trien novie.}

Trunglats: 1. Schiller's Mariat Stuart, I Aet, 2nd Scene.
Merias: Thr goht, Sir: Itr retinast miek abamula, Und oliss rein zetiagsths fitichten! Hers Per Qual der Uxgevientit za palludon. Ta bis, Dakk Furst Spaer Wachisankeit, Yon allet Welt zeechicroo, kplso Kanco
 Eia peinich langor Monat lst weraber,
Seitdosn lis viemig Commissarion
In finsen Schlosa nieh itarfallon, Rolrankian
Prrichest, sehive 1, mise maustlictiver Eile,
Nich unlereitet, oline Anwalts Lilific,
Vor ela noca nle erfiort Gericht gestelt,
Aut sehluugehaste achucce Kluçpunkie
Mich, die Botiante, Uolerrasehto, thy
Kus dem Geciclimiss Reffe stehon lissen-
Soit diowm Thate schrtigt wit feller Nand,
Th anch' umsonst in Etrom Blek zu lesen,

Ob meiser Fairida tōes Rall geniegt.
Firecht eadich Eaer Sci waipen- hisse mioh vissen,
Wiss ichau furcaten, was xu hofen have.
II. Gcehe: Gecz oon Berlichinger -Give-Vrus apht ihr mich so an,
 Hititat hir Luat xe piwom he itt setwer unI bachworifh tin en traper. Mortin-Wasist nitht hesthverichinif iliesar Wat! End raiKomme achto beschrentictur ror, uk nitit Mensch soin dirfea. O Herr! wap sind dio Melsoligkeiken ouree Lebons gogek dio Jimmasfichsoites



 oinavler. Mortin-Wollo Gott, meine Schmikera fullben Fraft den

 treteo, den main Sckopter sellet gotiftes latis.
111. Maria Stourl: Aet 1, 7ilh Sowe.

Morie: Tch Firre stameut do Gevitt lee Mundes;
Der mir was jo ao mubtilbrizend war Wie word' ich mich, pin ungSelrtes. Wefth
Mit so Iensforl'zen Redsec naesoon könnea IWoh! Wireo tizee Loaith, wie Ilir sie sohildert, Vasstemmia misest' ich, hofimungg os verforen Wir maino Surke, aprickea se onich scheliliz
Doth diess Sametr, dis Ilar preiveud metine.
Dos mich eureh ing Gexicht zermalmea soilen, Mylond, gasx andre Rolles sh' ich nio In den Gictlichien dienen Is, ider mpieloz. In den Getchichten dieven invien ypied leh wolo dieson bohon \(A\) dal Jugg innis,
Des Reichos mafostilisclieu Seriat,
Des Reicbes majestilisclieu Senat,
Gleich Skiveoa dea Seralls dea Snltaminunem Hsintiohn doe Actton. mosinee Gimasolims, erimelishelu. Tch vele dlesss etle Obrtbaus,
Gleish foil mii den erkunfighen Gemeinet,
Gssetso prigea cud verrafea, When
Antlosec, binden, wie der Michtige
Gishietes, Eoglands Firetgntiohtirt hoate Zaterbas, mit dem Rastardamen schíaden
Did margen sie zin Kóntiristien krüuab.

Vertauseltor Ueberneugang miter trier
Feglerungen den Glabita bico mad \#ndern.
Gramonatical quertienty
1. Decline the fifecmputive peons eor and yen. Which of the following indef prons, can be declived menn, Jedernena, Jenard, ecous ? Givn the sespective doclenvioas.
2. Ilastrate tho differeace becvoen mer and wedele, sich and sellit. What poenliar form does the relative gros. nesmas in sents like: The pen with which 1 an writing. The ward of which 1 thiak Mostion otle I similar forms.
3. Write in idiomatic Gernan : Is fs to ho liad in any shap. Do ft
 who are well Nothing now f He has no longer a friend.
4. Explain the difforsace beiveca rep. and iaseos, verio, anil write out the sinple tenses of uskonasion. When can thore be no separation of the predis, oren wiflisep corpp, verhe! Write axs.
5. Give the sirt pers sing. of the fulic. pras, and the Inperi. Snljs,

 Serte the meaning of uach verh.
6. Shaw by oxs. bow the coastraction ie affected br edrediai aad nutore'inative conjumethas. Kame thoce tliat casse me slecration, pand tranaluite Doth tho upper and the lover bouse lave sucuated to che bill
7. By what worls do you express ibe Faglibi con h aider? Traulate When duiv catte, one musi ohey, Whan was the first German nesajayor palitiled in Halifax 1 When 1 was is Germany, I suw the Empervor Cene whanver yon please, it yoa ane foad of raute-
8. Mas bat es is Lado maches lasen wollen. Man Lilte es nicht thuk kfasen, wese tises anch gowollt titte. Sie hitte betteln geben missen. Translate, and explatia the formation of the compouad texse in these clansza.
 illutration. What is the real mpaning of esch of these mords?
10. What xnolisare ased in tranalhtieg the prosel port, ilonotiog smue of rossen, and diee I Ilistratc. Gire she equivient of: To he fond of rewing. Not koowing what to ds, he lett wisto ut eny one's noticirg it. Ho vas rewardot for glving the information.
11. Write what yoa know abont the Stern-us? Drang Zit between

 By whom
tipare:

\section*{12. Tranalato into Geraman :}

They wha do not spesi the trith, desecre no confilance. The noen
 ever. The sun trak just setting wien wa prepared to go. Tho pluce was offerof to a talented yonag mis. Haring been in Germany but a doort tims, I ensuot spak Oermin flaenly. Learn to do good. He is Inown
 obe in dexiraus of becomiag rich. Developing the boly is as nasessary is devaloping the riad.

\section*{TOUBTH TEAR-SENTOR}

\section*{TME: 7asex Bods}

Traaslate: I. Scliller's Marin Stuart,-II. Act Jrd Soase.
Tubot: Nicht Stimmenmelrhnit ist des Rechtes Probe Eughani iost alcha die Welt, deiu Purlamant Nieht dor Versiai-der nooschlicioa Gexcilectives.
Dies rent go Exglani fict dus kïnft'Ro aielht,
Hés cas vergatgue gicht melir ist - Wie sica
Dra Noigung andera waniat, nlso stelyt
8at nicht, du miksesi ter Nothweadigkit
Gaborehor und dem Dingen deiaeg Volis
Sobsh dut willit, in jedom Augonblick
Kannst de erprobua, diss deit Wille fre ist.
Voenclh's! Prkliet, dass du Blut verahoohesest
Der sclamestor Lebsa villet gevettot mols,
Zoly' Draen, dfe if ansers raithen waiten,
Die Wahriait deises kisuighichen Zornu,
Sclivel wint 2 E - fie Nolhwendigkeit verahvizden
Und lloctit in Uare-he deh varvandeln athn.
Da selhat masst richices da allein. Du Lurass dich
Aat dioses asetet sehtronke Nobr ajohs lineen.
Dor eifguea Milide folpo du getrost.
Nricht Strunge logto One lae nelcho. Hors
Des Weibes - wind die Stifter disam Maihn,
Dic anch dem Woib do Horncherzagel ruben,
Sios xogeten an, dass Strephe aichi die Tugerd
Dar Königa soil sein in diesam Lande.
II. Zololldet Noreilen.- Dat Priez war langst wohlgemnth nad

 Bodenlos. Mit dicaom Harm staul er nichit in besbm Yemehinen, wia das soben Plilipp erfahrsa hatte, Julise sah, all, Feuster orlonclitet. Die Geranhlien des Minixters hatte groses Gesbllechuft. Julian, fo scines satyinglicu Pookaluma phazzte whoh don Palate gegosiber hin and biies kriftig in efin Horn. NachJam or gewolatermassed dle Stuile cerufen, sumg er init lanter Stimene gar vemelamich:
Thr, die filt aenfer in Seluhlenneth Nuch sum Pisumalnlater macht, Und elve Witz zara Barkerom biehe, doss dor Herz in dicocr Nacht

Nued suan Fumarminser macht, Der oine Finiezen lisst das I,and,
"Das fot ja rum Ohnaliohtervorlun!" tivi He Paat Ministeria, dis



C Siklauemilis Volksimatat Schnithlicho
Hiselbtrebaft - Win Bin ioh'a mifico, dimens Ciotzen
Ze selinebebela, den carin Interstes vissifinet!
Wean sall ielsfrii auf liesem Thrare stedn !
Tio Monning mese lick alares, nm fas lich
Der Menge buhhon, ciam Poukl mus ich's
Eechit sathen, dom dor Goaker nur giffls.
Cofalles masat \(\mathrm{N}_{\text {ter }}\) der Mis, div bil soincm Thun
Nach Xsionst Messchan Beifall braudst in fagen
\[
\begin{aligned}
& \text { Whilkar golmat merin Eclos ling, duso ioh }
\end{aligned}
\]

> Das Mssere, dia ich solbior pah, vircamme mioll
> War ich teramiuch why dit manbele
> Maria var, esfa Voffasr anf iom Thros, ioh Dïrsto
> deht ohat Tade Kionigsblut verap riven!
> Duil wiŕn tleme raelne elgae frelo Vahl,
> Gevechit ma ahe: Dlo allyamalitige
\[
\begin{aligned}
& \text { Det Kuntge zaiogt, gevah wit dias Tuyend. }
\end{aligned}
\]

Grammatical quentions:
1. Distingulah betwern simple and comp, sep, nod simplo and camp, ianp. varhe. Namo tro vothr of tact of theno forr chsios. Which il the only inesp varh, comracinaled with vieder)
2. What jotion is itaparted te verla by the prefiace: be, er, ver, eor, nise. Gire ess. Moution a fek geivins (ivrman verbe wilh tie surfix iven, giting that detirntion nat rieaming.
 and tha peat part of : follem, pervibuivder, howabiaseo, wifmbiosi,
 Give the maxitug of each.
4. Stato the faios for the ooder o! wards in a Gernam soxtente. Write bowe exs, is illtistralia.
0. Dy wluk paiticubra are estirdinab olnveet olamactorimed ? Trandato for uraxple: It wasnight when 1 arived in the city. He whe cown after hawity spuives. Wo cid not lesm it, kecueso mo dil aol go
 in his native town.
e. I have boon promien in sitiation. Ha was entertainel in a fricullf marer. The pationt has not been yeamisted to got tif 110
 zeason of tho diErouna in ths German conammedon.
7. Sproclen Ste dooh aicht so luat Goban Sie jo nicht aus. Ea winl lau cobl gelingen Man wix es Lhash satini gagen. Fe Fixd uncí dan Kapl veiligrth. Trusaita these ificmatic sestances, and give the erifiniry mearitg of the explotives lallidad.
8. Nors poonifaritios is the coustruction of the following sentorced 1 Ithro nioet che brot lytag on tie table. Wheie the veleave off \& Nony

9. Tillesacic सrpessions: Eincm anf dio Minge: sehet. Einem durch dio Finger mebea. Fiban Taren anflindan. Die Finger im Spieje mbea. It hat sich whitis besonses. Saliene etwas wetiss thisthen. This
 machen.
10. Write some ess. is Hllmatantion of the sie of the part, onsani, (a) preceled by a proctacies coljes. whil a proposition; (b) ifpleving a mhation proniswi ; \((\Rightarrow)\) exproiaing tione
11. Nuties triefly the Iterary laber of Woind s.ed fersiag. What is the so-calloc Scurm-avd Lrengect? Who is the anthor of ths itjllopic. Lourac, and what are ail merita respectigg Gsmman Prosoty?

12 Trantave fuw Geman:
What mas not Indy Raseel have fot, when whe heard of the answer Given br ler aged fallew-law to James II, vhe find the manasso, or the whet of inarinafion, to apply to hin in His distress? "My lord," mid James to the Errl of Beiforc. "yot Ere an lobeat man, livee gront creslt, and cat ob ine sigoal sorvise." "Ah sy "t ripled the Rati, I crest od and forble, but f onse had a son. Ah The liug is said ke have keen to old mas fetbie, but I ouse had a sou. olve fiug is said to lave veen to stru
IFust.

\section*{ITIMNOR.}

THIBD THAR-TUYIOK AKD SENIOH,

\section*{TRE: ThEIE RMUH}

Trualte: 1 (a) Voitaire's Corrles XII-Le arenic- Iree qu'on



 laianit, es gai abrervraicat nes thedinaticas nartinlas, hui formiront do

 Gue epiaileryot' ineurnentabla, to aonl mogon do lo pler utait do Io piquar dhenear; avoe lo neo de gloire en ostecarit teat de lai. Il asmil do lavorsion poar Is latia: nais die qu'on lui eat dis qua lo sol do lofigens
 ases pour lo parier lo reato de es vis, On o's prit do lo virixe manélio

 puist d'sistre longoe.
(b) Ls reflormateur do hy Moscopion rerteat porte ans loi ragy qui fait forto a betucosp ititats polisés: cost cuit n'es permith sucuil forma
 pascor dars un ejoitre, Co prince cornptis combich il in pocie de ne priat

 divpees di ha meithe parlie de sa forvue Cepenalat liadustrio des

 de hapuria.
 thou de matame, jarce qu'it y i quelgu'an que roas connsiisez tres biso, et que purtout, au vayage, noa retrouvons soas nos pas . . . Un franc etuaril, qui avait un noin, do la maisannce \& , qui poarait parvouir a
 lecons . . . maisquo j'ai eté fircé d'ababitomer, cor ill we fera junatis rien.
 furo antro choas... Cniros-vpas, zadhme, qus of pauvre jeune homme, afln de plaine il mon pere, et de mêtiter ma main, a ossa;f dthon dipJoture; il it énulie deax ans i Parls, sex aftimes etrangins... it no

 moi, yi javaik ledrois d'nvoir anavis, c'est pont cela queje le prifématis. ... de ne veux pas efro la femuo dhan amtassodenr, je ne suis jus aves dircrite poar ecla ... Quand I fant tous les nutins demancer à soa narl la physionomio qu'on doit aroi dana la joundo . . . e ebost terriblo . . . c'ast nhe coatrninto, un deguismmant oontinuls la via cutilise a l'air d'un hat masque.
III. Sarcey: Sikge de Paris 1871,-Helkal comblen jet foontro notis ćaient cayablen de se reudre compte dez ptogrès que cathe poife et hurable Praso, qui veunit de se réveler tont i coisp si formidable, arait frits, noa pas stalament dane lo maniamont des armes, mair eveore dana les sciences of \(k x\) aris, qui sott. Thoonent de la paixt Macanlay, to prurient et asgaces obrer ratcur, arsis déclaré dis 1843 que la monarchio prussieane, le pins joaus cios granda Btats curopeens, et que as popalaticn ausgi blen quesed reventi relégutiont is cinquabme ring, osenpait losecond, aptis 'Aagleterro, sons le rappart do l'instruction solide da Foot dos arts of de la capacile jour thus les genros de sticace: Po \([1\)



Questiona:
* 1 1. Le puemier litre quian lai fit tire. Parse fit, giving for peimi tive tenten, and the 2ud pors- plar, of tho Indicaive prenent. Why is lins in the Infinitiva? When is the Inficitive further kequered I State abo the exceptioe wieh an azample.
* 1 2. Account fully for the worils \(y\) anc en in the expressions: av \(z^{\prime}\), puit, and s'cu sercir (I. ix). Lllaztrate the ratione ways in whilch \(y\) aud en mny be ased.
* 3. Write the pomplanuire form of: \&e boase Aesive. Tranalate. inte idiomatie Fronch. The apoe joe atody, the more yos leari. This bester the laws [ary), the happior (ares) thi ptople. Do the best.
* 4. Nova scotia has no mep of war, be sha bas fine miling vessels (vaisseaux a roile). Driak pure water. Wlat a miented marr! Hov mach (que) seuy! Trauslise these acneaces, abd connment upon the and ef the partitive and indefisartieloe. Cortaib worda rejich abe partic. ent; mentices them with in ox.
 connaixmit, ponewai, veur (IIL). Parso theso rexho, and writo down the primitive tensen.



* 7. Make an iaterog-negative senteace, in the singulir, witht Les: exarcicad riolente lai formarent ce bonnc litaro auo connistion rigoarease, State the cusen is which the nogrations pae of ne nang bo ellided ib. a मegatife seturce. Give troexamples.
+8. Putia the sigg, nose, the following ailjecta, : grieques, froflele,
 doux. Tramstate : Au oll max ; old mea.
*+9. Or ies appille; Give the otymology of as, and write: "People any; it is vot suid. Pran the vard lec. Acenunt for the spelline of the word appdie. Moation orhlogesplical pocnifarities in ochar verbs of tho same clas.

1 10. Show hy exa, the difiorsnt mays of writing the anmeral mille: ant state in what essop mut inkess s as the shgu of the platal. Trunslats A German newspaper sus puhlishad in Halifax In 1789 . His Lmperial DFajemty Impror Willian LI. Tollay in the DJth of ApriL. Wo laare travelied ond thonaand milos in three gears.

1 11. Illestrate tha difarenco batvem Itrine (taterog.) and Lagel (rebt.) Wher do you reader ahosse by de gui, avd when by doat \(f\) Trase late: Agricalure and coanmeroo are equally uefal in a phato; the former feeds (seneritit tho inlablitarts, the lattor wakes thom rich.
- 12. Wa, ecker is expressed by pailye aul by puel que. Explain its see and acreement ia the following bouthen: Man mast die,-rhoever he may be, whatover weaith (richeseca) he may possess, vhataver way be his etation (psiftiga), hotrever learsed or powor/ul he may be.
 exauple - Those things art done diflerontly; thase warla aro writtis thas. Which verhas have up paseive voice f Hlustrate the exceptions, akel tranalato: Tha affair is very much thought of.
* + 14. Bearicosy d'Etsis policelsz Eaplais the agreemont of tis jout, polioes. Writo the same sontense subetitating bien for bemeshpt Comparo: berutang, pee, kiin, pueti.

1 15. Wate the auswoss to the gaestions: Ecrivez nons dea lostres t Aves vous un ami ! Etes rous Nowvel-ERonpais 1 Allesvons on AngaAver yous uriam wons is cor cames? Tars into Freneh: You are rightWe have jast weition Am I to speak ! He onghe now to lave guse. It is in vain for hian 10 cty .
* 1 16. Trashato into French:

Education is the oreamsat of tho rimh, and the sitien of the poss. Almoat all paintinge of Raphayl aro materpieces. Good example is a
 think, but think alwiga what yoa zay, What is noot trial to progroes is iflesese. He who rondeni a norrieo must forget it, hie who recilves it ment mumember it Caso the Cennat, at old foman of zreat viriue and minch wiskor, theil to say (imperf) there were bat throeactionn of hial fo which hat regoetted: the thit was, tha harias wh a reccet to his vilo; the secood, tiat ho liad goae by sea when he night have gone by lual; and tho thing, sho liavieg paseil ene day without doing wy thing.

\section*{FOTRTH YEAR.}

\section*{TiMe: TEMER yoyas.}

Eriptith--No me denasoo petial sut qual espoir foule Me es intal-ampar je ne via poredét
de trin accise poifit qelques frirtos doalemp Dont jo eris veir Achille le tase mes malimen
 A razembier far taol trest ies trwits co to have: Raypalerdif gnecre lo soaventr atroux
De jover qui dana len fers ame jota tratee jean ?

 Eufin, mis trietes jeux chercaizaal in charls ; Er. me vonrt pressor d'an bess eneangiante, Je frutaisnis Daris, et dyu ralapurir sanraga Crigmia da vericontrer tefluorable viape. Jontmi dasir ros viestantu, blemint in forsur, Et centoure dotocraazt mis vic arce aorisul. Jo lo ric wat appot u'svait ricn de feruelie; Jo tention le reproshe : \(x\) pirce dana ma botethe; Te seaits cantre mal moli coert st ceelirer: Joudiei ma coľ̀re, es De ats que phener.







 Jammo barrite on st pricinita. Coadaí jat hasterice nqpay fur li
 ca'te'agit do realiser dirs lor bin, lans les moenrs, es, avait toni, dans

 latiou do lo scritzade, ot qul apprend ì en sostis.
III. Revine: Jphigtrie:-Aac III.
 Tert ly progree gre Actilise avait finit dore ectre inab

 Vens woe de qual obil, wt somine frilfermas c'at ropid ds ma mort la novelie maplatse wo d'es oi point pulif. Que a'arce-voas pa woir A quel excestatét allait mon doony yoir, Opami, petaraen arrimart, un rélt pad dele
 Qral tronhle, qnal torrnat do reotc ingukens Acurasita la fois les hommes et ee dieoz:
 De constos roif simour mient pus chbr foo mi riel Quisat mame, quil sali-nt is del rite A on mouffir lesces do ma filicitot



\section*{Queailens grammaticates:}
1. Gualb esplice fe vena Tacise emphictil daye sas tragidias I Scradta le 16e nt hn darotar ves (I.), et marquag la cedero. Le vens:


2. Friver h ghe ters. de 1 limpéritif, ef les temps prinitits des


3. Rxplipian la regle An la plasae emmpacatín Proset peas ex = He weitor boitwe than hospedat. Ho foee ant writo bertar shan at cpaile.

4 Qrols verbes :egisena: lo Seljonetif tanbot avee, tantit suns la
 rant knivies do nt et du Subjonct. Eorivan un as.
 CtC, ans lo second realira cant plizase? Tradnex. If you are wise. and if yon what to on happe, amploy pans tirn whil. Thangt ha ia clater and his teen nimaif for some time, he wan's oxpmionct.

 Whoever lis may to in liotatiken gontlemas.



 dave sou plrmerc, ot dounse ox lo sorrigd.
8. La forme verlabe on ant est tuntit xaminNe, tart/c inuriable. Citaz det exa Trutniter bo phaved Ce sont dent fere vimat's cownith wars
 feavent étre amplayeds adjootiverient.
9. Eeplijuta laccord dos pate pong dans les phrisen: Te st asat
 ke hoat palde In oxloz to ho suru of truth one witet latn hecrad it asnomesd is a clear and poitior matuper. I par hor upplaritio.
10. Lie puremase flosprit int am nur las samanses to tove Ios semi.

 la resoodo plaise estello ergaltion ol vidensp \& Dourquat?
11. Rerlipe um mamn nates sur Roviue re nar Nolizrn. Fin quai ous devec asteura no rysesombient tio ?
12. Truitrisez on Franchis:
(a) Oht why is not the ofititando I laso esjoy it knove to the pholo univaric: bverrene moald vieh to precurs for sinself at simflar




 pet ardont nimiestion, which saited as voif with has fine faxures thist

 tators.- Vale Sood.

\section*{HEBREW,}

Fer Hebevm supur, soc \(A_{\text {pptalits. }}\).

EXAMINATIONE FOR HONOURS.
I.-FLONOURS IN OLASBIOS.

\section*{GRBMK}

For Grook Fapers, ace Appenciz.

\section*{IAATIN.}

Evanther \(\qquad\) doix ionexsos, Nin.

\section*{} visGH: Grexatw 1, IV.

\section*{Tise: Trinien ravad.}

2 Traniate nat explain:
a.
u. ad iucilas reflectum

Eth nare \(q^{\alpha \text { alima ast }}\)
2
xel Cenjus gonue If uic Sarcenm jan antidit patiorian.
3. Trabilace and witie netes os syatix or forme

G
 feeko
4. Explain thee forrrs:

Anthil Iosiveris cetraxe, mik, natls, luterlarl
5 Scam. minas quiaderim dibl sant quas peo 21ase sofilict, deosque oro it vitus twise insmated appores, te st animam velati pokisquan avimes te eat qucd हайен.

B 1. Translabe:
a Heerr fat 1, ace 1, vr. 15-35
A W" het IV. ice ?
Whene ascosoary, males a a 10 to an tha eryutens.

9 a LCTA-PRTMVM-TJBIIS'TMPAKIBVS: ExBlain.
b. Etntarian |fissulum) oges: What it the meaning of sersmian widd ulat is ias upposiny
a futhe aequi stily: dake cresoudi coplam. notarum qui mectinif facuat copam. kinn rifls: Tyssate thib and cocmiant on the syutax.
a. Ct. vidco fise eoepicositune Hera! tat trine
 strue solian.
 tonment on the statac of lisis lise.
i. Juitart fover: cropare fores. Mxplain tha ciference asit gove the Greek equifilents
3 Giva as outine of te plot.
1. Iracollate Cleot. IV, vv. 10-02.

2 Writ arphatatory notas on thase lies : L5. Avols, 0 Taguacos, fareal, olocyas Minatra Invertifa, nickyoe pree mivistrator anitr
2. Xee Pelisteas suran napemahire nents,
\({ }_{5}\). Aut Atliot nue kiofapen aut ulth Cernuia telo
d. Et pro paryureo jeczas dat Scyila capilb.
A. Trunalute sh's passage:

Sin ampia latis
Ir calme rava, ay ratoo sulilaga rulerr: :

Fowis ifis inligi, al buchis forte remuiti,




4 Iron what variam sourect ise Yirgil derive the material foa his work:

\section*{II.}



\section*{That: Thase noura}
A. 1. Trevshate Har, Epp-I. 15, +r. 5-31,
2. Wita grammingtife noces, there you celm them necesary, on :
a. Invenm rel uprcst iilon Eisit accilorti
2. Havo ago ptotanke of idcuets fuptrar et bof farkita
a. Que milhi formman, at ace contwlitur at.
3. Waphla the rolcroucer in tho following linot
d. Proitit magultus et pesuifigedala perla
b. Nacradiom Dimmata abintarito NClangri. Nec pomina tellom 'Tragenan arditer al nva.
4. Onve ( \(a\) ) Hyecols deicriptixin of lis cum rharacter und parsonat argeasice; (b) A pasage from sho Dpistios that fixes the texe of lis ieth
B. 1. Trimales Ity VII, TV . 98-129,
2. Write axplentory roles on thiss lines of the eximan a Quin dadir listocion, quaiturn Jarst meth Legonti? Fare a 13 sohm russatif poro Lacorife

3. Au eqigom, entodied sforwarls it his Sitires, is sid to lave had s iorion is futacos on Jurenal's lifs.
C. Tramelabs Cis., Dn Oratore X XII, eece- 9)-101.
 Writo an asplanvory notz
2. Th wham thae Rhataricas an art mon its arivin! What gra tima divelons of fise eilject matter. Givy beth the Greck and the latio termis. 3. In, Decies ceutens lechise luécparse. Dapress this sun ly Roman agrebals, and ato e the valao is Eaglifh nooul?
3. Name the divitiens of tile as.
 S.V.BE.E.V.

\section*{D. Tramata Tac, Dorm, clop. V.}
1. Poeariam pmiant velerea of tia notam, sernas biguterque. Describn these.
2. Whit Giemang gode ara protalif mintioned anter Lacin ammat
3. Discuss the queston wienter the Germanla or the Anude vere written fiss,

\section*{PHIWOLOGY AND LAATIN COOFOSTTION.}

A. Nav Muler's Scienea of liengmiga vol. T., ehtph. 1-7.

1. Dusaribn the snture of the atagor thonagh which a wience paesen,
 of langtake.
 ceectut and linstrita by an example that slovi as maty sepos as posaible
4. - WiJ zhetlat the cisvocer of Stnalrit Hete worght so complate
 anever Whaten ruation?
6. M. Mtiller rentions rwo remarkave thamphis of a tonlisel

1. Pailh's Trimalastiax to Gronk avil Tatin Rtynninger-
1. What is iseanc by \((a)\) " dyyatuic," and (0) "ptiosetic" ehas go t Give Beveral examples.
2. Write a lint of terbal "stan-satfices," adding one example of eath.
1. Filautrale br exnmine tha elangee or Inco-Eurcpean D II Mua axdergono in Intifi, Grook ind mighlih.
4. What puie is mot prapnily istiat in Grook and Latis? Aceonnt tox tlo cauaptione in Gesat.
5. Trace ty exampies tha clanges tha "spltanta" bave twilergote in Greek.
e. What are the Invic of asesataction in Fatin 1 Why ikit Eupposed that the lane vecodiffereat in an carlicr stage of the lasguage! Smp port the chasoy by eximples
C. Tavin Coisporition.

Trashin inta Latis - After the bog of his has hope by the desurue tion of tho Syrian hoat at Magnesta. Himilhal vaccered from limy te
 The Sinits sould ast hroatie white their grent ensmy lived, ned bian
 The tiog Garel acg bay nay, aul gave Eaarilal so unfoestand that he
 aceid faling wito tha lasca of his limplasalla fies, Ewrillowed puisua
 the halion of a ring

\section*{CLASSLCAL EMSTORT.}

\section*{Tyma, Thanit houras.}
W. R.-Only four pxations in ench port are io be arswered.
A. Donalison and Mallee's Hietory of Geeek Closriesl Titamane.
1. \(\alpha\). Whr is Enymn suppoied so bive bion FTomer's birtt-place?
4. In Uwe early looha of the Odysaay tro plote art carried onf.
c. Whas Mifferescan luru lexa uatod letwoca tae Illal and the Oidyeney ?
2. The origin of Tragedy, Quke Tloracst accomat of the cmatJ repreamention of trapodits. If is cucrect!
3. The lise of Breiylick The polidical state of Ahem at the time
 wist effich.

 apeochias
 eftit. How are Iomos hemes' preecles clamilied! The cccation of lis Enispocal. Describe Nia atyle.
A. Drowate Hitury of Latiu Classical Eisomiuro,
1. What is the oldeat qpecinom of Latia? Where are frementa of the Laws of the XII Tables presecred! Cau you quoto eny oll forms of warls thurtime?

2 Describe Sunmign verse Where aro apecinema foud? How doss Home ciaracteriat is?

3 Life of Pantus Name Jisplaye. Descrite his prelognee; that ts the Trinnuaed is unilke the rest.
4. Qucto Herace's remarks on Terence. What ate stoxedy the

 wed to acconipaty thert.
5. In what dipartmeus of literamue the the Fisinmes show eriginality * 1 berive it mue sind compure tbe chisf writern thercin.
C. Doasliders's Thenteo of thin fremks.
1. Comparn a thestricil porfornaroo in Athem with ons fu cer swis day as feepects (a) time, (b) plate.
2. What improvemons: in the reprorentation of trayedier are nitrl? buted to Fixtylis?
3. Describe tha mask and the use theneof.
4. The proparations aecesany for loribging sut a-ret of gar phath.
5. Nee peater ingui pentena fabont. Expinia the dituribution of parts in a Gre:k play.

\section*{1I.-HCNOURS IN MATHITNATAOE AND PHYAICs. Matниimatics.}

I.

THKGONOMBTRY ASD ANALTTICAL GRODETHX,
1. Find the vilue of \(\tan (A+B+C\), in temas of \(\tan A \tan 3\), fad Sas C) and blecues sher that, if bley be the anges of a tringle, wo hitro: \(\tan A+\tan \mathrm{B}+\tan \mathrm{e}-\tan \mathrm{A} \tan \mathrm{B} \tan \mathrm{C}\).
2. Frone that \(\left(e e^{\prime} A \pm \sqrt{-1} \sin A\right)^{12}=c 0 s m A \pm \sqrt{-1} \sin H A\), when in 8 a prsitica or sugutiro vhalo aumber.
3. Prare \(a-\tan a-j \cos ^{2} a+l \tan ^{A} a-d \pi\)
4. Any two wides of A spherical thasele uno fughecher greater than the thind; and the threesices are together lese than the cirecmlerones of a great once.

6. Etato Kipfler's rulte for the sotition o Eight-siglad spterish triangion osplaining them aud exernplifying the spplieation of thom.
 of coralinazes 10 another, making an anglo of with tham.
8. Fine the eraation of a ifut pasing thtongh a given paint \(\left\{s, 3^{\prime}\right)\),
 wordinatua lucter reenisgriar).
5. Prove that the straiglt las \(9 x-(2 y-r-4)=C\), where \(k\) is varitble, sways pates throughan fixet polat, aud Inc the polut
10. Gives sho lave and diforence of squarce of siffes of a triasgle, fiad annlytically the kectas of the vertes.
 the flime \(e^{2}-5 x y+i y^{2}+x+9 y-2-6\).
19. The suopdisater of the eentra of a eitelo ant 5 anc 5 its modizs =3. Fini the squathin of a tangent fo it from the ocielin.

\section*{11.}

ANaLitival (abonerny, Thsóry op zquations, AND DHFKKENTIAL CALCLLLS
1. The equation of a ocnic reforred to rectagular aker being \(e x^{2}+b y+y^{\prime}-d\), shew that by a vitimitho traneformation of cooedf nates \(t \mathrm{~cm}\) to raluced to the form
\[
\begin{gathered}
\frac{A}{d} x^{2}+\frac{B}{d} y^{n}=1, \\
\text { where } A=1\left\{a+c+\sqrt{b^{3}+(n-c)^{2}}\right\} \\
B=1\left\{\sigma+c-\sqrt{n^{2}}+(n-c)^{2}\right\}
\end{gathered}
\]
2. Esprass the fornl distances of aty point of the ellipse \(\frac{r^{2}}{a^{2}}+\frac{y^{2}}{b^{2}}=1\), it trons of the abrcisn of the point; and hesce sleur that dheir stm is coamant.
3. The beas of the fistractive of the tangent at any qeint of an
 on fle minfor sxia ct the ellipeo ne- dianeter.
 bo kenwn parillei to two givin strsight ines to nout flun eneve tho

3. Tuneants are Irawn to the prabol, \(0^{0}=t \in\), from as external polat \(\left(\lambda_{3}, h_{3}\right)\); find the equation of the chord of sontacs.
-5. Fisd the polar equation of the cirele in its most geneml form
7. State Starn's tisorem, and apply it to fiod the stastica of the rools in the equatica, \(v^{2}-3 x^{2}-4 x-13-0\).
3. Apply Hornor's mathod to eahalate the root, lying betweon 1 and 3, of the uruaton, \(x^{6}+10 x^{2}+6 x-120-0\).
3. Truaform ths equation, \(x^{3}-3 x^{2}+4 x-t-0\), treo anothor wasting tho scoosh teem.
10. Denine differental coertictent and find the dtrerental cor-miteuts of \(\operatorname{ais}^{2} x_{p} \sin ^{-1} x_{3} l_{2} x_{y} a^{2}\).
11. Diflareutiate \(a^{a r}, \sin ^{n}|r x| ; \frac{a}{1+\log x^{2}} \frac{1-\tan \pi}{\text { ree } 9}\).

III.

\section*{THIFFERENTILL AXD ISTPRORAL OALODLDE.}

\section*{}
1. Stato and prone MacIaurì's Theoren. Apply itto expand sin r Tins uriob at passise of \(\%\).
2. Prove Leilnitis's Thearem viz:
\[
\frac{d^{n}(u v)}{d x^{n}}=n \frac{d^{3}}{d x^{2}}+n \frac{d n}{d x} \frac{d^{n-1} v}{d x^{n-1}}+\frac{n(n-1)}{12} \frac{n^{n} n}{d x^{n}} \frac{d^{n-9} v}{d x^{n-4}}+\lambda c .
\]
3. Plore that the valne of atec \(\hat{f}+b\) cosec \(\hat{f}\) is a minimum whas \(\tan \theta=V^{\frac{\Delta}{a}}\)
4. Prove that if \(\mathrm{n}=\beta(x y)\).

5. Find an exprestion for the racian of exrvaturo of any curve, and

\[
\left.y-\frac{a}{2\left(d^{2}+t^{2}\right.}\right) \text { is } \frac{x^{2}}{a^{2}}
\]
6. Find tio oqnation of the arolate of the cllipac.
J. Fud the fellowing integrals:
\[
\int \frac{\sin \pi d x}{4+b \cos x} ; \int \frac{2 x}{\sqrt{m^{2}+n^{2}}} ; \int \frac{2}{x \sqrt{2^{2}-x^{2}}}
\]
8. Integrate
\[
\left.\int \frac{d \theta}{\theta+\delta \cos \theta^{i}} \int(c+2 h x+\sin )^{2}\right)^{2} \quad \int \frac{d \theta}{\sin \theta}
\]
9. Apply the formela foe integration sy parts to
\[
\int \frac{\operatorname{cin}^{-1} x d x}{\left(1-x^{2}\right)^{\frac{1}{2}}}
\]
10. Intugase by successive reathelion
\[
\int \sin ^{4} \theta d \theta ; \int x^{0} \theta^{a x} d x ; \int e^{\sin } \sin ^{2} x d x
\]
11. Finit ly titegration the aren af the allimeo \(\frac{x^{2}}{u^{2}}+\frac{y^{2}}{b^{2}}-1\).
 from the vertex, is given ty the formula
\[
s=\frac{m \sqrt{y^{n}+m^{2}}}{2 n}+\frac{m}{2} \log \left(\frac{7+\sqrt{v^{2}+n^{2}}}{m}\right)
\]

\section*{PETSICS.}


1. Siew that the acemlertion \(\frac{d^{2}}{d p^{2}}\) of a rartite movine ite a curved pheh is ming the complete restitunt of the componeat accelerations \(\frac{d x}{d N^{2}} \frac{d^{4} y}{d t^{2}} \frac{d^{2}=}{d d^{2}}\), hat is the smen of their reolied parta in the direction of motion.
2. A free particle noven mider the action of a vertical ferse whon

Q. A particl: has twe conponeat suiform sivomlar motiones of the sume periol and phasa. Detarmine its path, ( \(a\) ) if the circalat metions are the same way rand (b) If chey are in oppostie ditectloas. How it yon explain the rotation of the plase of polarisation ly soch bodiss is quaris?
 to one urothor. Detormite the lineor velocitiot of any particle parallal to the asos, in terms of the componens sugular rebocltes of thic body aul stie on-orifantes of she peetlcle. Whas is the equatiou to tho hastagtancous mixia?
 yare? Give prosi. A phero is cal from a errstal wbove soeficiont of thermal expulsion in one drection is E. Aad in all directuns at relit asgles to that oue \(\epsilon\); what fern will it tike when heated?
6. Shevtha: for a homegonoou incompresable fard whoan mot on it irrotational, is faction F can bo fomml atch that \(\frac{d^{2} \mathrm{~F}}{d{ }^{2}}+\frac{d^{2} \mathrm{~F}}{d z^{2}}+\frac{d^{2} \mathrm{~F}}{d+1}-0\).
7. Find the ceatro of nass of a cecrular are of naiforn poction, tho density, (1) teing anitorn, 12) viryifg as tho length of the anc mecurel fram one extremity.
8. A patide mavos in a pime ander the antion of a force ifrecterl
 of the partide foom it. Slew that the work dous, whan the particls movel firm noy oae poist to wily otber jeint, ti s stepetiont of the path.
 center, an ellipacid which a such that tho pquart of the reciproati of any radius victor masurees the monert of isertis of the body shont that midina ventar ser exis.
10. Find the attraction of a this cirsalar plate of eniform deakity Ga a partict of unt muss paces arywters on a the drough the cenire of the plate pervencicular to its plase.
11. Assming Greer's Theszen, shew thas at all poists in cmpty
 the bormiff recibus of a tube of farco at thoss points. Shew thit the
 is. Is insersoly proportional to the sqtare of tho distrace of the sainll charge fiom ite contro.
10. Fied the statio und lifaekit ogralions of a fociblo inestonatblo atritg. Apply fle tattar to the cese of a stentchnd warghtiens istring. obtain their tuose generil sclubsa hatile tase, aud tisetprot is
10. Euuncieso tho bmo fualdonentat tioms of Thiran-lynaviies. Show


\section*{APPENDIX.}

\section*{EDBRET.}

Estanimer. \(\qquad\) Kev. 1) Hoxitazar, D. U. L. Thast Fuen Howna.
1. Tale crory 1 ith were of the list and Ind Claytors of Cenesie, begianing witl the 9 ned resse of the ist Cinpter, vis.:

Ferses \(2,11,21\), it of lat Chaphar.
10, so of Sonl Chapier
Alan Vorsos 1 ant \(\$\) of 8 th
Tranctate heralle,
Atalyze fiscorgity
12. Worls eccarring nave thun oses, Intlyze cace mid ufterwanle refer to previons amatryia.

4. Nate all sorts of poraliantiss of prapenction by protik, aftis, defects, accentradot, or conscamint paenlianily; give reasonia for such.

\title{
EXAMINATIONS IN GREEK 1881-82.
}

\section*{TUNTOE MUNRO ESHIDTTONS AND EERSARTES, 188L.}
\(\qquad\)

\section*{XISOPHMS ANAKASIS, FONE IV}

Fiose: These Hacts.

\section*{I}










 Aрiver.















2 Give the equ valencs in Briglish mess re fo： i申又

3．What Latio pb－atet taree pord to：


5．Tell（vith letce）the otory of tha axpolatice of the＂Ten Thou－ sand＂

\section*{II．}

1．Dool ne with artiele is the Sing．（giving sontrabied formole tuppwir，tur，jols．
and in the plural us above
rois, ing fifye.

2．Nole irregalarnafs in the declention of

a）Write acos oing，ard norm，and lat．plaral，（in all genders，wath somels both open and ecotrici－al）：
－גriks，ternke，raxic，nitas，nown
4．Denote by Greek letters，58．Wrike in woriala， 2169 non
3．Fuan 2 pl．impert inlio．（vith ceutrastiona）of－


6．Wrise a tha pert infin s．t of yacous，tijume．
6．the peri，infin．paes．of giater，videph．
g，the Aor．intn．pees，of arizhu，antye．
7．Blassify the gesiti vesa in the extruata．



9．Paree，giving Il lised，pres，indie，fat instic，perf，indic，in the ecti re，and perf，indis，sor－madio．in the patcive－－mpuryitip，iferce．


\section*{SESSIONAL EX ATMINATIONS， 1882}

Jonv Jonssots，M．A．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．Brinniner．

\section*{FIRST YERR．}



\section*{Tine，Ther Hears．}

A．Tramtlak Amb－IIT，oh 2, evis 10，11， 12
1．Gefmed iforive Expain che continction．Vhat in the Lation for tt？
 Pares dipariaition．



18．Tranalaie Lac Dial，It（Wialkerin Seleotions），beginaing－


2．：1．Accoant for the case of atilew．


 deserile that esturvion of the places

す．A aketel of lacian＇e life．

\section*{II}

1．Write \((\alpha)\) the gen．wee，and roe．sing of－

10）the nom．and gen sing，and dat．piaral of－


2．Bive the parts in the chat－iegres arresponding to－

3．Write in Grepte detiens and meria， 2859 vormeng \(978 t i x+12\) ， 600
1. Writp ilse cortraelel ag llables fonnd in varbe in nes Have werbs is cu alnoye the onnfrablod formar in Astic?
5 How are present atsmb formed ?
6 Writo the porfact inficitive pasily of'-

7. Give examplen of " \(\Delta\) sic \(c^{*}\) rerbal forme in the active, ose of each kiac.
8 What rerbs ben the 3 plyeeti Indis- pare: is-itro.
9. Shew to a te an ar form all the moods, vee forin it rach, o" the pecoliar teraes in the midile woige of-inu.
10. Parse, ziviog an many of thechief parte as are ueed, thene vor-



\section*{ADLITHONAL YOR A STRST OR SRCOND OI.ASE.} THNOTHON = OYBORAED1A. BCOK 1.

\section*{Tive: Thou Hetro.}

\section*{t.}
 s. r, \(\lambda\).
1. Wha is the colstruction of rì fí pedrainka ikegrt .... ?
2. What word it superfions in the emonnce Aryenc aif, +12 ?
3. Kapleiar the conarolige of worts is the elase



II
1. Gire examales of theditterent meant of avolding Hiztuas.
2. Whan ate he inggalarifies in the declensica of rip, Tpiefors. doches!
3. Givenall the creet of juif with asoense,
4. What oblicue catel ate porisponena?
5. Acrear these verls, and write an sugniented form of emols with acents (pointiog out viscron the ifreqularity, if any, (00sibs)),
rmẫol, noviblo, dacras, mútethr, connc.
6. What pura (of mote th an ons syllable in the agtive vites are ( 4 ) peri-gलmega, (b) cnetons?
7. What sertes in- linte 2 acr. in form of 2 ul conjagationt
8. Parse, socent, and gire shief parts (wactuled) of rowelocieh


\section*{SECOND YEAR.}

A. Eraushate, Mem. foy b, nses, 10, 11, 12
 articte, the other \(x 01\) ?
 for nasea sud turn the plrine into lasis.
 the pume pon-ractica ?



 and give the corroppond ng forme is position und anpuelstive.
1. Trasshate thase pl mees and give the Latin: av vajp, serio ploss
 sinas dacti ix.ty
8. Write the ges. ase and yoc. sing of

3. Pserte, beving ehiof pars-1

B. Tranilace: Ud. \(\left[X_{,}, 318-395\right.\).
 prese in linglials messure
 olange is "ngerolent"


5. Name ten I.ation worfs a kin to uny tan in flan axtract.
6. Suan liues \(1,11,13,17\), kiv ng explamationa mbere reyuircl.
7. What towne naimed to the Hamer's terth place? What arguments lave been pat formetal io prove liat the Fliad and lise Odyesey were net the works of t iesume athor it


 waruon fled finto hie ctly by the quickext way-Danct + 日y feat thims in rinang words, bat many thing in tow warke.
\(\qquad\)

\section*{ADDTHTUNAL A FOR FHRST OR SBCOND C LASS}

Tinee Thro Boms

\section*{1.}





2. Whit is the force of tambite with a particis in?


 oration.


3. Decline a trivat.
4. When were thee apectheg delipered?

\section*{II}

Gramiar fountel on Odyusy 12.



3. Write losic al al. pluperf. prese of stvensending to 4 and k .
4. What is Lhe Byic dotist \& Oive an example.
5. What reelon fon nd in Or IX. are supposed to have Laif iritial đgamert Glve masion.
6 Aecent and orien clvin? porte with anoeritat





\section*{THIRD AND FOURTH YEARS.}

सLAIO: APOLOGTA BOOLATTS, YURIPIDES MEDEA.

\section*{Tivic. Whreo Hours.}
A. Jransiale Apel. VII. \(\Delta\) eide íail to end.
 reading
 is pimilar gonstraction from Botace.




5. Sepply ell pres in the lest swo sentences of the passuge.
6. Point oot the preitestive paricisles in the abore eatrach. What dascea-of verro tilen rwak?
7. Rive sone woesunt of the jury end of the veldist in the trial of socrules.
B. Traaslide: Med. 12t5-1200.

2. Acconnt for cases and ghe taum. aud yet Blag. of Stavti, difines, apmion, Elgom, debirtar,' 'Ian,


5. Stan soy tero Lembias in Final ing two lines not beirg laminics
6. Dompare dare ace of the cosbol ady in thec with ts Egnivalent in Iatin.
7. The orclesira in Orck asad Roman Thoatras, The nutof the Prologza and Dous es makina by Euripices.
C. Tranalate isto Gicel = Tan not as bll in want of noney. Thef are too young to know that vialom oupht so ke decired.- Ronomber that you we a man. - Do you see how mans them tre of tac memy?
 diell not came oft witl in puaity.

\section*{ADDITIONAL FUR A TIRST OR SLCOND CLASEi.}
D. Translate the pastage, net ecos boboet
\[
\text { ( } 1 \text { riwdet spanki). }
\]




 p emids trimer, of ingme mentiva trae




 mix Srupham: the or juiu remporakes



1. A. HONOIDS.

\section*{Jues Jurissox, M.A.}

\section*{}



1. Write caplanstery ackes an





2. Parse, nerawira, leytedowas gavequerecita.
3. To nliai Tr logs doenthin play b-long" Name the cthern. Whent is the thome of tite Triogy? Desoribe Aquacerion's ettrabes.
K. Trumbite: (EAliz. Col, ver. 1313-1041.

1 in, riatela at ar zakir: Etplain the stnhax.
b. Traselsw if 1026 ascordiag 10 a diforent realing.
 1e8 ail

inerocir + ir Acpión tobr,

Wilte a ricte on the equithet Muriot.
2. Soan the preceding lime arid alas the follawing +
to rater zec, ib ver rjups


\& Nune the differeat partsof a Crick par. When was the Oedip. Cel. arista? What sory is conneeted with pert of t?
L. Srucslate: Ofyeres Y, the 242-271.
 seaterice. What parteof a boat ate tiot metsioted in this pressge?
 tuites:


4. Sean taese Inas exphinag quantiles waere necessary.




\section*{5. Shon that mant Greck woris have a preticed vowet.}

THECYALDMS: Daok YIL



\section*{That: Fiver Hovers.}

1. Thio elasptar him heen ocproiol by anathar instavian and aptited t. an eveat in Roman history.

 ronk 3 mm . (ch it.)
Writh notes on the aysies.
3. Explain thete wal phithter =

4. Parsc, dod © का
B. Tranilatet Dem-: Da Cosona 9 ( 281 ) laegitilag Entimer

 un accoust of the Athmisn month. What date in cur caleadar correaponde to that a bore?
2. What war the charget egtinat Demo-theser, had what was the defence? When did the trial taky phate?
3. Parse, iefopars, etvox,
C. Tranelsto : Mlato, Phasd, Clapa 43, beginaias a: \(22 x^{\circ}\) eir mìv nì rumita kiklif dratir.
1. The sentence of stora dià taire num a.rA celraite of dicier thanalutione mosonfing to the muting
2. Analyo the clatise
3. Distioguith the wee of movin wish Tyin
4. In Pianl olaunct, ahen in the subjuncilse lewnd ufter sccoula tenses and the gquative atter primary :```

