## Guy's Hospital Medical School (University of London) : Summer session, 1904.

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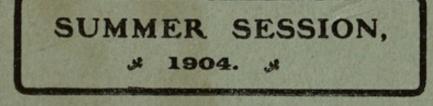


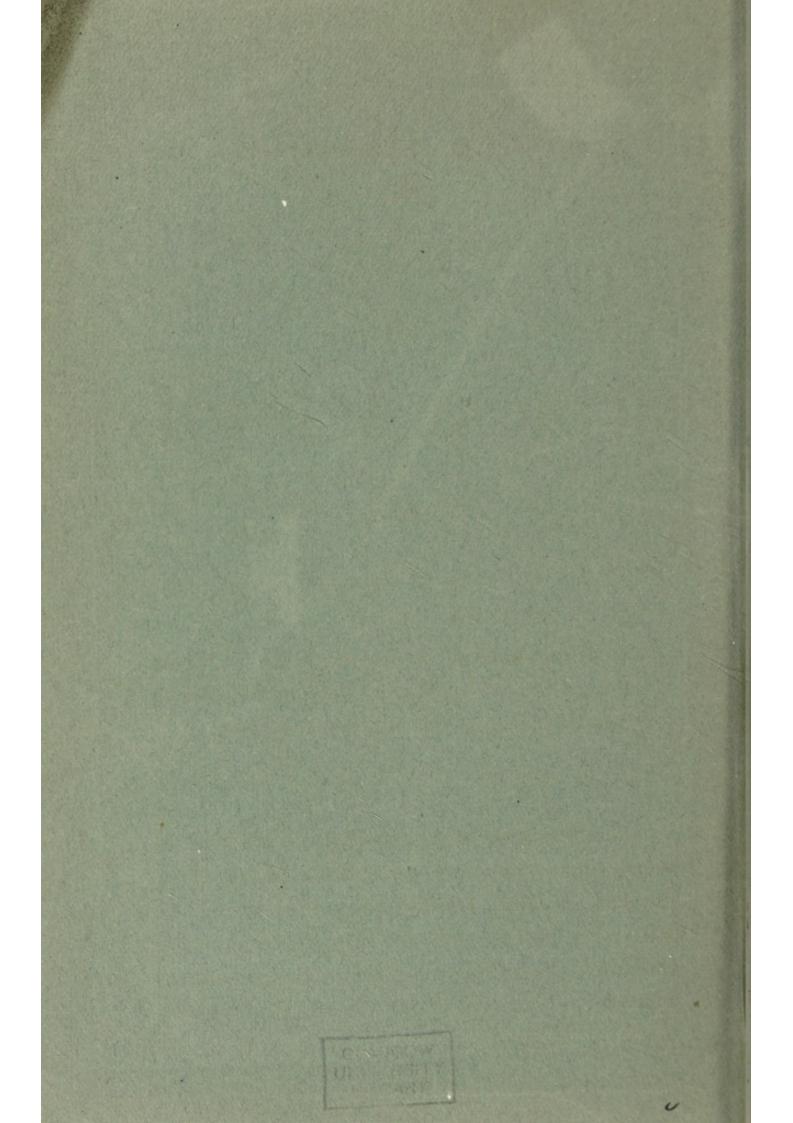
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# Guy's Ø Hospital Medical School Ø

(UNIVERSITY OF LONDON).







# **Guy's Hospital**



# MEDICAL SCHOOL.

1904.

The Winter Session extends from the beginning of October till the end of March; the Summer Session 6. Ro the beginning of May till the end of July.

Communications with reference to the Medical School should be addressed to THE DEAN, Guy's Hospital, London Bridge, S.E., from whom all particulars may be obtained on application, either personally or by letter. Information may also be obtained at any time from Mr. S. H. Croucher, Clerk to the Dean.

## PREFACE.

Experience has shewn that there exists on the part of parents and others a demand for an elementary Guide Book to the Medical Profession, which should give a plain account of the first steps to be taken towards the attainment of a qualification to practise. In the following pages an attempt is made to supply this want. With this aim in view, full information has been given with reference to the earlier stages of the curriculum, and other matters of especial importance to a Student at the outset of his professional course. On the other hand, it has seemed inadvisable to overload an elementary work with details as to lectures, practice, and appointments, which find their proper place in the larger Prospectus, to be had upon application.

The following may be obtained upon application: The larger Prospectus of the Medical School; the Rules and Regulations for Residents in the College; a Syllabus of the Entrance Scholarships in Arts and Science, with copies of the Examination Papers of the previous year; Particulars of the Preliminary Scientific Classes; the Prospectus of the Dental School; and the Clubs' Union Year Book.

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## GUY'S HOSPITAL.

## MEDICAL AND SURGICAL STAFF.

Consulting Physicians: Sir SAMUEL WILKS, Bart., M.D., LL.D., F.R.S.; F. W. PAVY, M.D., LL.D., F.R.S.; P. H. PYE-SMITH, M.D., F.R.S.; J. F. GOODHART, M.D., LL.D.

Consulting Surgeons: J. BIRKETT, Esq.; THOMAS BRYANT, M.Ch. Sir HENRY G. HOWSE, M.S.

Consulting Obstetric Physician: A. L. GALABIN, M.D.

Consulting Physician for Mental Diseases: G. H. SAVAGE, M.D.

Consulting Aural Surgeon .- W. LAIDLAW PURVES, M.D.

Consulting Anæsthetist .- TOM BIRD, Esq.

Physicians & Assistant Physicians. So FREDERICK TAYLOR, M.D.
W. HALE WHITE, M.D.
G. NEWTON PITT, M.D.
G. SIR COOPER PERRY, M.D.
L. E. SHAW, M.D.
J. H. BRYANT, M.D.
J. FAWCETT, M.D.
A. P. BEDDARD, M.D.
Obstetric Physicians.

P. HORROCKS, M.D. J. H. TARGETT, M.S.

Assistant Obstetric Physician. G. BELLINGHAM SMITH, M.B., B.S.

Physician in charge of Skin Department. SIR COOPER PERRY, M.D.

- Anæsthetists. G. Rowell, Esq. H. F. Lancaster, M.D. C. J. Ogle, Esq. P. Turner, M.S. A. W. Ormond, Esq. H. T. Hicks, Esq. D. Forsyth, M.D. A. G. Levy, M.D.
- Medical Registrars and Tutors. H. S. FRENCH, M.D., B.Ch. H. BARBER, M.B.
- Obstetric Registrar and Tutor. H. T. HICKS, Esq.

Surgeons & Assistant Surgeons. R. CLEMENT LUCAS, B.S. C. H. GOLDING-BIRD, M.B. W. H. A. JACOBSON, M.Ch. CHARTERS J. SYMONDS, M.S. W. ARBUTHNOT LANE, M.S. L. A. DUNN, M.S. SIR ALFRED FRIPP, M.S., C.B., C.V.O. F. J. STEWARD, M.S.

- Ophthalmic Surgeons. C. HIGGENS, Esq. W. A. BRAILEY, Esq.
- Surgeon in charge of Throat Department. F. J. STEWARD, M.S.
- Surgeon in charge of Aural Department. C. H. FAGGE, M.S.

Dental Surgeons. F. NEWLAND-PEDLEY, ESQ. W. A. MAGGS, ESQ. R. WYNNE ROUW, ESQ.

- Surgical Registrar and Tutor. A. R. THOMPSON, M.B., Ch.B.
- Ophthalmic Registrar and Tutor. A. W. ORMOND, Esq.

Curator of the Museum. J. FAWCETT, M.D. Dean of the Medical School and Warden of the College. H. L. EASON, M.D., M.S.

## LECTURERS AND DEMONSTRATORS.

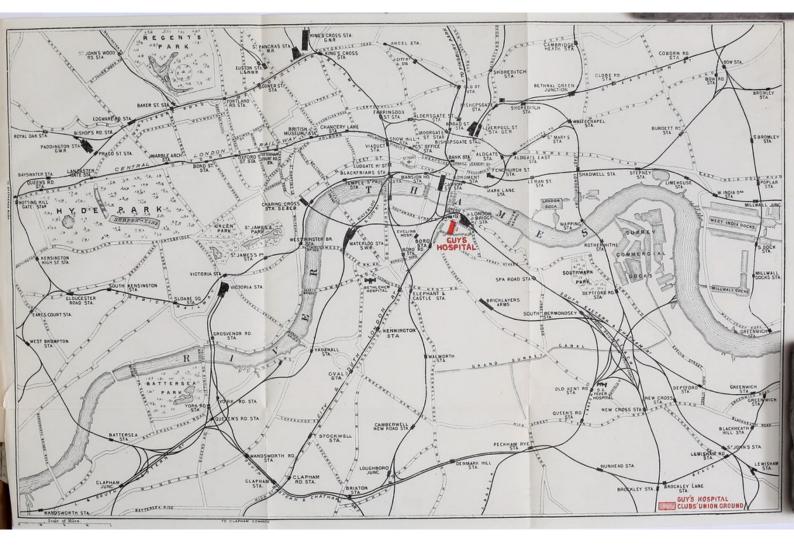
DICAL AND SURGICAL STAFF.

GUY'S HOSPITAL.

Clinical Medicine THE PHYSICIANS AND ASSISTANT PHY- SICIANS.
Clinical Surgery THE SURGEONS AND ASSISTANT SUR- GEONS.
Medicine DR. TAYLOR AND DR. HALE WHITE.
Practical Medicine DR. FRENCH AND MR. BARBER.
Surgery MR. LUCAS AND MR. GOLDING-BIRD.
Operative Surgery SIR ALFRED FRIPP AND MR. STEWARD.
Practical Surgery Mr. THOMPSON.
Midwifery and Diseases of Women DR. HORROCKS AND MR. TARGETT.
Practical Obstetrics MR. HICKS.
Mental Diseases DR. M. CRAIG.
Ophthalmic Surgery MR. BRAILEY.
Dental Surgery MR. WYNNE ROUW.
Aural Surgery MR. FAGGE.
Diseases of the Skin SIR COOPER PERRY.
Diseases of the Throat MR. STEWARD.
Electro-Therapeutics DR. BRYANT.
Anæsthetics MR. ROWELL.
Hygiene and Public Health DR. SYKES.
Pathology DR. PITT.
Gordon Lecturer on Experimental
Pathology DR. BOYCOTT.
Morbid Anatomy DR. FAWCETT AND DR. BEDDARD.
Morbid Histology and Bacteriology MR. BELLINGHAM SMITH AND DR. EYRE.
Medical and Surgical Pathology
Classes DR. FAWCETT AND MR. STEWARD.
Bacteriology DR. EYRE.
Forensic Medicine DR. STEVENSON.
Anatomy MR. LANE AND MR. DUNN.
Practical Anatomy MR. FAGGE, MR. ROWLANDS AND
MR. TURNER.
Physiology DR. PEMBREY.
Practical Physiology DR. PEMBREY, DR. SPRIGGS AND DR. FORSYTH.
Materia Medica and Therapeutics DR. BRYANT.
Practical Pharmacy THE HOSPITAL PHARMACIST.
Chemistry DR. WADE.
Practical Chemistry DR. WADE, MR. RYFFEL AND MR. BALL.
Experimental Physics PROFESSOR REINOLD, F.R.S., AND
MR. BALL.
Biology MR. ASSHETON, DR. STEVENS AND
MR. TURNER.

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## POSITION OF GUY'S HOSPITAL.

As may be seen on reference to the Map, the position of Guy's Hospital, close to the London Bridge Stations of the London, Brighton and South Coast, the South Eastern and Chatham, and the City and South London Electric Railways, renders it most readily accessible from all places upon these lines. The Elephant and Castle Station of the South Eastern and Chatham Railway is about ten minutes', and the Borough Road Station seven minutes' walk from the Hospital. These three railways together serve nearly the whole of the south, south-eastern, and south-western districts of London.

There are excellent tram and omnibus services to Brixton, Clapham Common, and Camberwell. The Bank of England, to which omnibuses run from all parts of London, is less than ten minutes' walk from the Hospital, while the numerous omnibuses which cross London Bridge bring their passengers to within one minute's walk of the Hospital gates.

Trains from London Bridge run every few minutes to Cannon Street and Charing Cross, and the proximity of the Monument Station on the Underground Railway renders the Hospital ready of access from stations on the Metropolitan and the Metropolitan District Railways, and the systems with which they are in connection. The Central London Railway is connected with the City and South London, and so brings another large district into easy communication with the Hospital. The Fenchurch Street and Liverpool Street Stations of the Great Eastern, the Broad Street Station of the North London, and the Waterloo Station of the South Western Railway, are distant about a quarter of an hour's walk from the Hospital.

## **RESIDENCE OF STUDENTS.**

The College accommodates about 60 Students, who are under the supervision of a Resident Warden. The rooms are well furnished, and the cost of residence is moderate. Further particulars will be found on page 8.

Students wishing to reside with a Member of the Medical Staff, a Medical Man, or a Clergyman in the neighbourhood, can obtain information by application to the Dean.

A list of Lodgings within easy access of the Hospital is kept at the Medical School Office.

## Guy's Hospital.

THE HOSPITAL, which is situated on the south side of the Thames, close to London Bridge, was founded by Thomas Guy, a Printer and Publisher, in the year 1724. In 1830 William Hunt, Merchant and Citizen of London, bequeathed £180,000 to the "Treasurer and Governors of Guy's Hospital for the benefit and purposes of that Institution." Guy's original building is now occupied mainly by the Surgical Wards, whilst medical cases are received in the Clinical House and in Hunt's House, a large block of buildings which was begun in 1850 and completed in 1871.

At the present time the Hospital contains accommodation for 602 Patients, an additional 50 beds having been opened on the Medical side. The beds are allotted approximately as follows: -

Medical Cases				245
Surgical Cases				269
Diseases of Women			Lon	24
Ophthalmic Cases		)	F	33
Maternity Cases .				8
Infectious and Seclusion	Cases			17
Throat Cases				5
Ear Cases				4

During the last twelve months the number of In-Patients under treatment was 8,191.

The general arrangement of the Hospital and School buildings will be understood by reference to the plan, and to the fuller details, given in the larger Prospectus.

## THE MEDICAL SCHOOL.

THE SCHOOL OF MEDICINE AND SURGERY attached to GUY'S Hospital dates its formal commencement from about the year 1769. The oldest of the existing School buildings was erected in 1826, and since that time numerous additions and alterations have been made, of which the following are the most recent :—

In 1888 a Pathological Laboratory was built adjoining the Post-Mortem Theatre, and in the same year the requirements of the Physiological Department were met by the addition of two Class-rooms provided with the necessary appliances and apparatus. In 1890 a large Residential College, built and furnished at a cost of £21,000, was opened for the reception of Students. It contains about 60 sets of rooms, and affords the accommodation required for the Students' Club.

In 1891 two large rooms were fitted up as Laboratories for Practical Physiology and Biology, and a new Class-room was provided for Operative Surgery.

On July 17th, 1893, a block of buildings, which had been erected at a cost of £15,000, was formally opened. This block comprises a large and well-lighted Chemical Laboratory, with places for 100 Students to work at one time, a Lectureroom for the same number of Students, a Laboratory for Experimental Physics, a Bacteriological Laboratory, and the very extensive accommodation rendered necessary by the growth of the Dental School.

In 1897 a Lecture Theatre, two large Class-rooms for Histology and Physiological Chemistry, and numerous smaller Class-rooms and Laboratories, thoroughly equipped for the teaching of Physiology, were erected at a cost of £13,000.

In 1902 a laboratory was fitted up for the Gordon lecturer in Pathology, and an additional laboratory added to the Bacteriological department.

The magnificent Wills library for the use of Students and others was opened last year.

In order to provide the Students of Guy's with facilities for healthy exercise and recreation in the neighbourhood of the Hospital, the Medical School, through the Treasurer and Governors of the Hospital, has lately acquired a nine-acre field close to Honor Oak Park Station, which is reached in fifteen minutes from London Bridge by the London, Brighton and South Coast Railway. It is under the management of the Council of the Clubs' Union (see page 28).

## THE COLLEGE.

THE COLLEGE stands upon a site fronting the East Gate of the Hospital, and is connected with it by a Subway. The building serves as a residential College for Students, and at the same time provides accommodation for the Students' Club (see page 27). The residential portion consists of rooms for the House-Physicians, House-Surgeons, Obstetric Residents, and Externs, together with the following accommodation for other Students:—

- (a). Twenty-seven Sets, each consisting of a Sitting-room and Bedroom. The rent of the Sets varies from 15 shillings to 17 shillings per week.
- (b). Eleven Combined Rooms, consisting of Bedroom and Sitting-room in one. The rent of each Room varies from 11 shillings to 13 shillings per week.
- (c). Three Sets, each consisting of a Sitting-room with two Bedrooms. The rent of the sets varies from 26 shillings to 27 shillings per week.

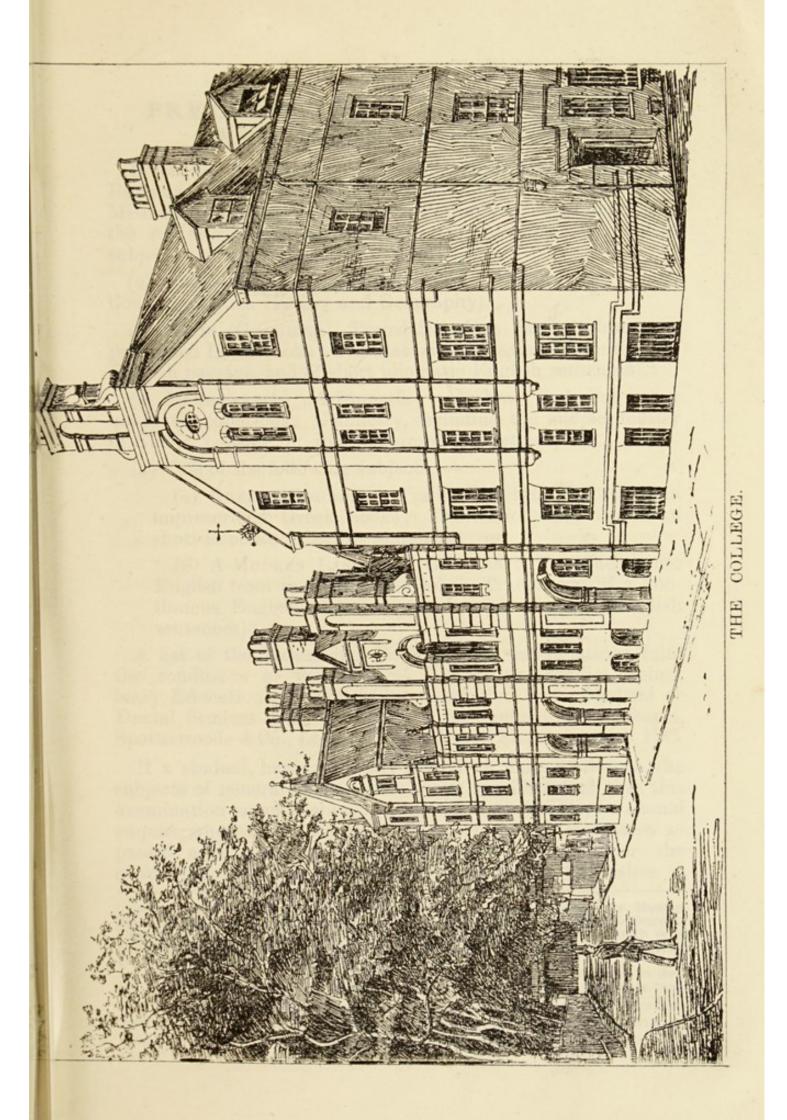
The Rooms are comfortably furnished, and the above charges include attendance, but are exclusive of fire, lighting, boot-cleaning, and washing of personal linen. Fuel, gas, oil, and candles are supplied to residents at cost price. Rents are payable quarterly in advance.

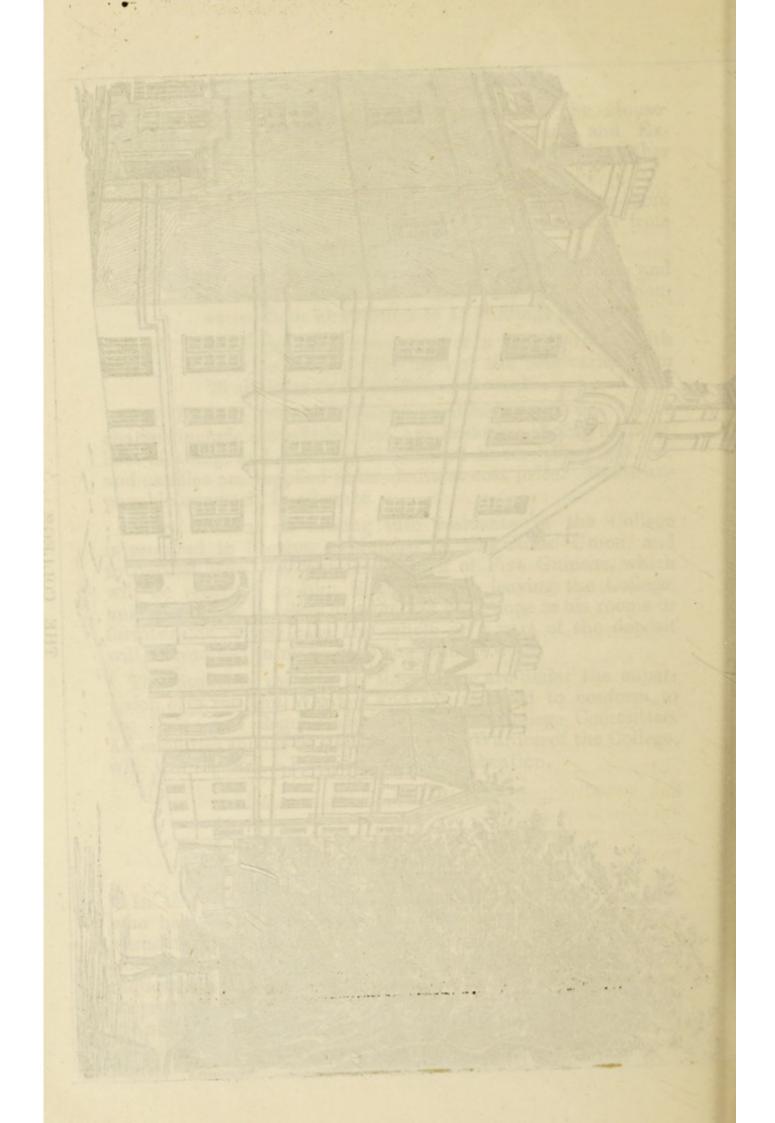
Every Student on coming into residence in the College is required to become a Member of the Clubs' Union, and to deposit with the Warden a sum of Five Guineas, which will be returned to him in full on his leaving the College, unless wilful or careless damage has been done to his rooms or furniture, in which case the whole or a part of the deposit will be retained to make good the damage done.

The Students residing in the College are under the supervision of a resident Warden, and are required to conform to the Rules and Regulations made by the College Committee. All enquiries should be addressed to the Warden of the College, who will forward a Prospectus upon application.

## COURSE OF STUDY.

In the following pages it is proposed to afford to those who have decided to follow the profession of Medicine such elementary information with reference to the preliminary examinations to be passed, the choice of a diploma, the subsequent course of study, the expenses of the curriculum, and other matters, as will enable the Student to make the best use of his time and opportunities at the Medical School of Guy's Hospital.





## PRELIMINARY EXAMINATIONS AND REGISTRATION. \*

Before a Student can have his name placed upon the Register of Medical Students he is required by the General Medical Council to have passed a Preliminary Examination in the subjects of general education (see also p. 29). These subjects are as follows :---

(a) ENGLISH (Grammar; Paraphrasing; Composition; questions on English History and Geography).

(b) LATIN (Grammar; Translation into English from unprescribed Latin books: Translation into Latin of a continuous English passage, and of short idiomatic English sentences).<sup>+</sup>

(c) MATHEMATICS (Arithmetic; Algebra, including easy quadratic equations; Geometry, including the subject-matter of *Euclid*, books i., ii., iii., and simple deductions).

(d) One of the following subjects :---

(a) GREEK (Grammar; Translation into English from unprescribed Greek books; Translation into Greek of short idiomatic English sentences); or

(B) A MODERN LANGUAGE (Grammar; Translation into English from unprescribed books; Translation of a continuous English passage, and of short idiomatic English sentences).

A list of the Examining Bodies whose examinations fulfil the conditions of the Medical Council as regards Preliminary Education and entitle to registration as a Medical or Dental Student may be obtained on application to Messrs. Spottiswoode & Co., Ltd., 54, Gracechurch Street, London, E.C.

If a student, having already passed an examination in the subjects of general education as above specified, find that this examination is not included in the list sent to him, he should enquire whether the Council will accept the examination so passed as a qualification for registration, or whether the examining body for whose diploma or degree he wishes to

recognised by the examining body whose Diploma or Degree he intends to take.

+ In the case of Natives of India or other Oriental countries, whose vernacular is other than English, an examination in a classical Oriental language may be accepted as equivalent to an examination in Latin.

<sup>\*</sup> Registration at the General Medical Council is not compulsory for Medical Students, and is not required by the London University, or the Royal College of Physicians and Surgeons in England for their conjoint diploma, although it is still required by other licensing bodies. The Student is, however, advised to register on entry at a Medical School if he has not done so before. A Medical Student must in any case pass a Preliminary Examination in Arts

enter, will accept it as a Preliminary Arts Examination. If satisfied that the examination comes up to the standard considered desirable by the Council, the Education Committee may allow the Student to register.

But a question which really requires consideration even before a Student passes a Preliminary Examination in Arts, is which of the various qualifications it is intended that he should in the end obtain. Assuming that a Student wisely intends to avail himself of the unrivalled facilities for the clinical study of Medicine and Surgery at one of the great London Hospitals, there are many qualifying Diplomas and Degrees within his reach, and his choice of a Preliminary Examination will depend upon his intentions with regard to his final qualification.

Thus, if he proposes to take the double Diploma of the Conjoint Board (L.R.C.P. Lond., and M.R.C.S., Eng.), or the Licence of the Society of Apothecaries (L.S.A.), it will be sufficient for him to pass the simplest examination which will entitle him to registration as a Medical Student.

If however he desire to possess instead of, or in addition to, either of these Diplomas, a University Degree such as would give him the right to the use of the title "Doctor," he must be careful to see that the Preliminary Examination he chooses will be recognised by the authorities of the University to which he intends to proceed. If he desire to spend the whole of his five years of study at Guy's Hospital, the University of London will be chosen, and for this he must take as his Preliminary Examination in Arts the *Matriculation* of the London University (see p. 30 *et seq.*), unless admitted under Statute 113, or under the second clause of Statute 116 (v. Appendix, p. 38 and 39). The attention of Students is specially directed to the recent alterations in the regulations of this examination, which place it within the reach of every well educated Student.

If it has not been possible for him to pass the Matriculation examination at London University, and he desire to obtain a Degree and at the same time to spend four years at Guy's Hospital, the University of Durham will probably be found the most convenient. Special arrangements are made at Guy's to enable Durham men to absent themselves from the Hospital in order to reside in the University during the second year of their medical course, which is generally recognised as the most suitable time. Such Students should, when possible, enter Guy's in May, and must either at their Preliminary Examination or some time before the final Examination for the Degree of Doctor of Medicine, satisfy the authorities of the University of their knowledge of Greek. A Student who desires to take the Degree of Doctor of Medicine conferred by the Universities of Oxford or Cambridge, is recommended to spend his two first years of Medical study at the University, and to subsequently enter Guy's Hospital as a third year's Student. In the case of a Cambridge man, time may be saved by passing the equivalent of the Previous Examination (the necessary Preliminary Examination in Arts) before proceeding to the University, which may now be done through the Cambridge local examinations, or the Oxford or Cambridge Schools examination.

It seems here desirable to point out that since the General Medical Council has made a five years curriculum compulsory upon all Medical Students, a Student need spend no more time in taking a Degree at a University than in obtaining the Diplomas of the London Colleges. It is therefore of the greatest importance that the proper Preliminary Examination should be determined upon while the Student is still at school. In any case of doubt, enquiries upon this subject addressed to the Dean, Guy's Hospital, will be willingly answered.

## PROCEDURE ON ENTRY AT GUY'S.

The Student, having decided to enter Guy's, should come up to the Hospital, and ask for the Office of the Medical School. Unless already registered, he should bring with him a certificate or other evidence of having passed a Preliminary Examination, and also a birth certificate to show that he has attained the age of 16 years, as required by the General Medical Council. He will then be provided with a form of application for registration as a Medical Student, which he will fill up and sign. After he has paid his fees (see p. 23) this form, together with a certificate of the commencement of medical study, signed by the Dean of the Medical School, will be sent from Guy's, with the certificate of the Preliminary Examination and the birth certificate, to the Registrar of the General Medical Council, who will return them to the Dean, if found satisfactory, accompanied by a certificate of registration as a Medical Student, for both of which the student must call a fortnight afterwards at the Office of the Medical School. There is no charge for this certificate.

Before leaving the Office of the Medical School, the Student will be informed of the classes he is required to attend, and he will receive a card of admission to the lectures and Hospital practice, together with the Students' Calendar. He should at the same time inscribe his name in the Dissectingroom list, paying 25s. as the fee for material. He should also secure a locker for his dissecting case, books, and apron, by making a deposit of 5s., which will be returned to him when he has finished his anatomical studies. The Student should also pay one guinea for materials to be used in the Practical Chemistry Course, and unless already provided, a deposit of 26s. for the use of a box of apparatus and a locker in the Laboratory; also a fee of £1 1s. for materials for the Biology Course. He should also consider the question of joining the Clubs' Union, the annual subscription towards which is two guineas. The advantages of Membership are shortly explained on page 26 et seq.

Students joining the School in May or October are strongly advised to attend for the purpose of paying their fees and signing the register a few days before the actual commencement of the Session. The course of study can then be more fully explained by the officials of the School, and any irregularity or omission in the certificates can be rectified without loss of time.

## UNIVERSITY DEGREES.

#### LONDON.

Students who intend to compete for the degrees of the London University must take as their Preliminary Arts Examination, the Matriculation Examination of the University, unless excused therefrom under the statute previously referred to (see Appendix, pages 38–39).

After having passed the Matriculation, the Student should join the special classes held at Guy's in order to prepare himself for the next examination, viz., the Preliminary Scientific (M.B.) (v. page 40). The subjects required are taught by means of Lectures and Practical Classes, extending over the Winter and Summer Sessions from October to July.

The Lectures on Chemistry are delivered by Dr. Wade, D.Sc; the Course of experimental Physics is given by Professor Reinold, F.R.S.; and Biology is taught by Mr. R. H. Assheton, M.A., and Dr. Stevens. Students are recommended, under ordinary circumstances, to join the class in October to prepare for the examination in the following July; but those entering at other times of the year receive special attention. The fee for the course is stated on page 25.

Students who enter for the Preliminary Scientific Course are eligible for the Open Scholarships offered for competition in September.

The Student should, after passing the Preliminary Scientific (M.B.), join the School as a First Year's Student, and proceed to prepare for the *Intermediate M.B.* Examination.

Although in some ways the commencement of the Winter Session is the most convenient time to join the School as a First Year's Student, yet there is no actual necessity for a Student to so defer his entry, as arrangements are in force by means of which he can at once commence the work for the Intermediate M.B. Examination. In case of doubt, the Student should confer with his teachers and the Dean as to the best course for him to pursue.

#### COURSE OF STUDY.

First Winter.—The London University Undergraduate should attend the lectures on Anatomy and Organic Chemistry, dissect, and attend the practical work in Chemistry. While studying Anatomy he should avail himself of the splendid and unique collection of wax models of dissections for which Guy's has long been celebrated. He should be present at the tutorial classes given twice a week on his "part," and otherwise spend as much time as possible in the Dissecting Room, and in the study of Anatomy. He should also attend the elementary class in Practical Physiology, as well as the lectures, and the tutorial classes in Physiology. The School examinations in Elementary Anatomy and Practical Physiology should be passed in March.

First Summer.—The Student should attend the lectures on Physiology and the course of Histology, and pass the School examination in the latter subject at the end of the course. He should attend the lectures and practical work in Organic Chemistry, and continue his study of Anatomy by dissecting and attendance at the tutorial classes. He should also attend the course of instruction in Practical Pharmacy and Materia Medica. Second Winter.—The study of Anatomy, Physiology and Organic Chemistry must be continued, both by attendance upon lectures and practical work. The Student will at this time commence his attendance at the *advanced* practical *classes* in *all* these subjects, these classes being specially arranged for London University Undergraduates, and others competing for the higher Diplomas or Degrees. At the same time, he should attend the tutorial classes in Physiology held for all Second Year's Students. At the end of this session, the Student may with advantage enter for the Second Conjoint Examination, for which he should by this date be qualified.

Second Summer.—The study of all the subjects required for the Intermediate M.B. Examination will be completed, chiefly by attendance at the special classes held for the examination and by practical work in the various Laboratories or in the Dissecting Room. The Lectures on Pharmacology and Materia Medica should be attended during this Session.

All London University Undergraduates should compete for the Junior Proficiency Prizes as well as for the Michael Harris Prize and the Arthur Durham Prizes in Anatomy, and the Sands-Cox or Wooldridge Prize in Physiology.

For Students who enter in May, or at any other period of the academic year, a similar course of study to that above detailed is arranged.

#### **OXFORD AND CAMBRIDGE.**

A student at one of these Universities generally completes his study of Anatomy and Physiology before entering Guy's as a Third Year's Student. If, however, it is more convenient for him to enter before he has passed his First M.B. Oxon or his Second M.B. Cantab, he can obtain instruction to prepare him for these examinations in the University Classes in Anatomy and Physiology, of which particulars will be found in the larger Prospectus.

Oxford and Cambridge graduates who terminate their course of study at the University in the summer, and who intend to present themselves for the "University" Scholarship at Guy's in the following September, or for the primary F.R.C.S. (Eng.) in November, are strongly recommended to continue their studies in Anatomy and Physiology during the long vacation. They should, after competing for the Scholarship, enter at Guy's and attend the special classes for the primary F.R.C.S., and commence their hospital appointments after this examination is completed. In order to encourage University Students to obtain the Fellowship of the Royal College of Surgeons England, it has been arranged that an Oxford or Cambridge man who enters as a Third Year's Student shall be allowed without further fee to continue his practical study of Anatomy and Physiology, and to attend the revision classes in these subjects in preparation for the primary examination for this Diploma.

A University Student who defers his entry to the Hospital until he is ready to commence work in the wards, should bear in mind that the junior appointments begin on the first day of January, April, July and October, and that application for such should be made to the Dean not later than three weeks previously.

#### DURHAM.

A candidate for a Medical Degree at Durham is required to spend one academical year in residence at the University. It is recommended that such a Student should enter Guy's as a First Year's Student (preferably in May), and at the beginning of his Second Year proceed to Durham, where, after studying for the required period, he should pass in Anatomy and Physiology of the Second M.B., returning to Guy's as a Third Year's Student, or he may remain in London until he has completed his compulsory appointments at the Hospital, and reside in Durham during his Fifth year of Medical Study.

## THE CONJOINT DIPLOMA.

L.R.C.P. (Lond.), M.R.C.S. (Eng.)

Students who propose to obtain the Licence of the Royal College of Physicians of London, and the Diploma of Member of the Royal College of Surgeons of England, usually select for the Preliminary Examination one of the Examinations of the College of Preceptors, the Regulations for which are given on pp. 40-44.

As these Preliminary Examinations take place in March and September, a Student who has passed one of them may enter the Hospital in May or October—that is, at the beginning of Summer or Winter Session—with little loss of time. In the case of a Student who passes his Preliminary Examination some months previous to May or October, it is strongly recommended that he should not wait till the commencement of the Session, but should at once enter the Hospital, and register as a Medical Student. There is no necessity for a student to defer his entry to the Hospital until the beginning of the Summer or Winter Session, as arrangements are in force by means of which he can at any time join the regular classes in Chemistry, Biology, or Anatomy (v. Fees, p. 25).

If, however, for any reason it is impossible for the Student to enter until the commencement of the Session, the intervening months may be profitably employed by studying one or more of the subjects of the first "Conjoint" Examination, viz.: Chemistry, Practical Chemistry, Physics, Practical Pharmacy, and Elementary Biology. They should be studied at an Institution recognized by the Examining Board, as certificates of instruction are required before examination, and furnished with these, the candidate may present himself for examination before entering Guy's (v. p. 44).

#### COURSE OF STUDY.

#### FOR STUDENTS ENTERING IN OCTOBER.

If a Student has not passed any portion of the "First Conjoint" Examination before entering the Hospital, he should, during his first Winter Session, devote his chief attention to Elementary Biology and Chemistry, with the object of passing the Biology and Chemistry part of that examination before or by the end of the Winter Session. He should attend Anatomy, Physics, and Chemistry Lectures, and Practical Chemistry, and the Lectures and class work in Biology throughout the Session.

The Student who has, previous to entry, passed the examination in either Chemistry or Biology, or both, should commence his anatomical studies with a view to passing the School examination in Elementary Anatomy in March, as well as that part, if any, of the "First Conjoint" Examination still unfinished. He should put down his name for a "part," and attend the lectures on Anatomy, the special tutorial classes given twice a week on his "part," and otherwise spend as much time as possible in the Dissecting-room and in the study of Elementary Anatomy, including the bones.

In the Summer Session he must devote his chief attention to any of the three subjects which may have been postponed, or in which he may have failed to pass the Examination. In any case he should commence his study of Practical Physiology by attendance at the course of Demonstrations in Histology, and also pass the School Examination in this subject at the end of the course. He should also attend the lectures on Physiology, which are given from May to December. He should commence or continue his study of Anatomy by dissecting and by attendance on the Tutorial Classes. If he has passed all three Examinations in March, he may also during the Summer prepare for the examination of the Conjoint Board in Practical Pharmacy, but he will be wiser to postpone this subject until he has passed the "Second Conjoint" Examination in Anatomy and Physiology.

In his second winter the Student will complete his study of Anatomy and Physiology by further attendance on Lectures and Tutorial Classes on these subjects, by the Practical Classes in Chemical and Experimental Physiology and by Dissection; he will thus qualify himself for the Second Examination in Anatomy and Physiology, for which he will become eligible at the end of this Session.

#### FOR STUDENTS ENTERING IN MAY.

The Student should attend Classes on Chemistry and Chemical Physics, the Demonstrations in Practical Chemistry, and also those in Biology. He should pass the Chemistry and Physics of the "First Conjoint" in July, and the Biology also if possible. By so doing, a very considerable benefit will accrue to him.

At the commencement of the Winter Session, and in the event of his having passed in one or both parts of the "First Conjoint" Examination, the Student should commence his Anatomical studies, following the lines laid down in paragraph 2, page 18. Any part of the "First Conjoint" Examination still uncompleted should be passed in January.

At the commencement of the second half of the Winter Session he will begin or continue his anatomical and physiological studies by attendance at the tutorial and practical classes. He should pass the School Examination in Elementary Anatomy in March or July.

In his second Summer Session he should attend the class in Practical Pharmacy, and pass in this subject in July. He should attend the lectures on Physiology from May to December, the Course of Demonstrations in Histology, and pass the School Examination in this subject at the end of the Course. Dissection must be continued as well as attendance at the Tutorial Classes in Anatomy. In his second Winter Session he should continue Anatomy and Physiology, and finally pass in these subjects in January.

For the Course of Study to be pursued after the First and Second Conjoint Examinations are passed the larger Prospectus must be consulted.

## SCHOLARSHIPS AND PRIZES.

## OPEN SCHOLARSHIPS IN ARTS AND SCIENCE.

Five Open Scholarships, two in Arts, and three in Science, are offered for competition in September 1904.

## ENTRANCE SCHOLARSHIP IN ARTS.

- 1. A Scholarship of £100, open to Candidates under 20 years of age.
- 2. A Scholarship of £50, open to Candidates under 25 years of age.

#### SUBJECTS:

- **ENGLISH**.—On the lines of the London University Matriculation Examination—that is to say, "The paper will test knowledge and command of English by questions in composition, précis writing, paraphrase and analysis of sentences. Some of the questions will involve a knowledge of the most salient facts in English History and General Geography."
- LATIN.—Including Grammar. Passages of moderate difficulty will be set for translation into English, and an English passage will be set for translation into Latin prose. There will be no set books.
- \*GREEK.—The same regulations apply to Greek.

\*FRENCH. Including Grammar, translations into English, and \*GERMAN. translations from English into French or German.

#### ELEMENTARY MATHEMATICS-

- Arithmetic and Algebra.—As far as and inclusive of quadratic equations, with ratio and proportion.
- Geometry.-Subject-matter of Euclid (Books I.-IV.), with simple deductions.

(Euclid's proofs not insisted upon.)

\*Candidates may choose between Greek, French and German, but will not be allowed marks in more than one of these subjects.

#### ENTRANCE SCHOLARSHIPS IN SCIENCE.

JUNIOR.

1. A Scholarship of £150, open to Candidates under 25 years of age.

2. A Scholarship of £60, open to Candidates under 25 years of age. SUBJECTS:

## INORGANIC CHEMISTRY, GENERAL BIOLOGY [Zoology, Botany], EXPERIMENTAL PHYSICS, including General Properties of Solid, Liquid and Gaseous Bodies, Acoustics Heat, Magnetism, Electricity and Optics.

There will be a practical examination in Chemistry in addition to the Paper. Specimens may be given with the Papers in Botany and Zoology.

#### SENIOR, OR UNIVERSITY SCHOLARSHIP.

3. A Scholarship of £50 open to Candidates under 25 years of age, who have completed the curriculum for, or passed the examinations in Anatomy and Physiology for a medical degree in any University of the United Kingdom, and have not entered as students in any Metropolitan Medical School.

#### SUBJECTS :

Candidates will be examined in any two of the following subjects at their option, viz.: ANATOMY, PHYSIOLOGY, ORGANIC CHEMISTRY, ZOOLOGY, PHYSICS.

The scope of the examination in Anatomy and Physiology will be that of the Intermediate M.B. (Pass) Examination of the University of London, and in Organic Chemistry, Zoology, and Physics, that of the B.Sc. (Pass) Examination of the University of London.

The Examinations will be conducted as follows :--

Tues., Sept. 27, Morn., 10-1		JUN. SCIENCE. Chemistry.	SEN. SCIENCE. Organic Chemistry.
Aftern. 2-5 Wed., Sept. 28, Morn., 10-1	Euclid.	Botany. Physics.	Anatomy. Physics.
Aftern., 2—5	French or German.	Zoology.	Zoology.
Thur., Sept. 29, Morn., 10-1	Arithmetic and Algebra.	Practical Chemistry.	Physiology.

A Candidate obtaining an Entrance Scholarship will be required to enter as a full Student, his fees being paid in advance up to the value of the Scholarship gained. No candidate may hold more than one Entrance Scholarship.

Names of intending Candidates should be forwarded on or before Monday, September 12th, to the Dean, Guy's Hospital, London, S.E., and Candidates for the Scholarships in Arts and for the Senior Scholarship in Science must then state what are the subjects in which they propose to present themselves for examination. The following are the Scholarships, Prizes and Medals, open to Students of the Hospital:-

The Arthur Durham Prizes for Dissection £15 and £5	;						
Junior Prizes for General Proficiency £20, £15, £10	)						
Hilton Prize for Dissection £5							
Michael Harris Prize for Anatomy £10	)						
Sands Cox Scholarship for Physiology £15							
Wooldridge Prize for Physiology £10	)						
Beaney Prize in Pathology £34							
Golding-Bird Prize in Bacteriology Gold Medal and £20							
The Treasurer's Gold Medal in Clinical Medicine.							
The Treasurer's Gold Medal in Clinical Surgery.							
The Beaney Studentship in Materia Medica (tenable for	10						
3 years), annually £31 10s.	T						
The Gull Studentship in Pathology (tenable for 3 or 5							
vears), annually £150							

### **REGULATIONS RESPECTING STUDENTS.**

A gentleman desirous of becoming a Student must produce satisfactory testimony as to his education, conduct and character.

A Student is required to conform to the rules for the time being of the Hospital and of the Medical School; to be diligent and industrious; to pass his various examinations within a reasonable time; to acquiesce readily in the directions of every authority for the time being of the Hospital or Medical School; to behave, both in and out of the Hospital, in such a manner as fully to uphold the dignity of the Medical profession.

If the Medical Council report to the Treasurer, or if he be of opinion, that a Student ought not to continue to be a Student of Guy's Hospital Medical School, or that the privileges of a Student ought for a time to be suspended, the Treasurer may, by notice to such Student, put an end to his Studentship, or suspend him from all privileges of Studentship for such time and on such conditions as the Treasurer may think proper.

Should the Medical Council be of opinion that a ticket, conferring the rights of perpetual Studentship, ought to be cancelled, and report to that effect to the Treasurer, he may cancel such ticket, and thereupon all rights under such ticket shall be at an end.

No fees will in any case be returned.

## FEES.

## I. THE COMPOSITION FEES.

A. Preliminary Science Students.

Composition Fee :---16 guineas for the first twelve months or less period.

8 guineas for each subsequent six months or less period.

This Fee is payable by Students entering for the Preliminary Scientific (M.B.) London, the first M.B. Durham, the first Conjoint, M.R.C.S., L.R.C.P., and other corresponding examinations. In the event of such examination being passed before entry as a First Year Student, the fee will be regarded as part of the Entrance Fee (**B**).

B. First or Second Year Students.

C

Entrance Fee		 	20 guineas.
Annual Composition	Fee	 	30 guineas.
Third Year Student.			
Entrance Fee		 	10 guineas.
Annual Composition	Fee	 	30 guineas.

This Fee is payable by those who enter after having passed the Intermediate M.B. London, the First M.B. Oxford, the Second M.B. Cambridge or Durham, or the Second Conjoint M.R.C.S., L.R.C.P.

## REGULATIONS REGARDING COMPOSITION FEES.

1. The ENTRANCE FEE is payable by every student on the day of his admission to the School, with the exception of Preliminary Science Students  $(\mathbf{A})$ .

2. The ANNUAL COMPOSITION FEE is payable in advance on the first day of the term in which the student enters, and on the corresponding day of each successive year, until he has obtained either a Medical degree of a British University, the Conjoint diploma of the Royal Colleges of England, or such other registrable qualification as may be approved from time to time by the School authorities.

Annual Composition Fees may be paid in advance for any specified term of years.

3. A student who obtains one of the above qualifications within nine months of the date on which his last annual composition fee becomes due, will be allowed a rebate provided he has paid not fewer than three annual composition fees. 4. The payment of the entrance fee and annual composition fee will, during the twelve months following the date on which each annual fee becomes due, entitle a Student to attend all lectures, demonstrations and other instruction provided by the School for students of his standing with the exception of such courses as may from time to time be specifically excluded, see III., page 25); to compete for prizes, and, if selected, to hold appointments in the Hospital.

5. The course of study pursued by a student paying annual composition fees shall be continuous, unless the authorities of the School in particular cases, on the ground of illness, or other cause which may appear to them sufficient, shall otherwise determine. No postponement of the date of payment of a composition fee will be allowed on account of any such interruption of studies which is less than of six months' duration, nor on account of this or any period of greater length unless written permission from the Dean is obtained for such interruption within one month of its commencement. If this period is to be extended, further written permission must be obtained within one month of its termination.

6. A Student who has paid an entrance fee with two or more annual composition fees, who has to the satisfaction of the Dean been industrious, who has obeyed the rules of the Medical School and Hospital, and who has obtained one of the above-mentioned qualifications, may hold resident and other appointments without further payment, and may receive from the Treasurer a ticket granting him the privilege of Perpetual Studentship.

### II. FEES FOR SEPARATE COURSES.

## HOSPITAL PRACTICE.

A. The following are the fees payable by Students who desire to attend the Practice of the Hospital, including Clinical Lectures and Post-mortem Inspections, but excluding Systematic Courses of Lectures and Class Teaching. The payment of these fees renders the Student eligible for Hospital appointments—

For	three months' Medical or Surgical Practice	a	15 guineas.	
	Both together		20 guineas.	
	Six months' Medical or Surgical Practice		20 guineas.	
	Both together		27 guineas.	
	One year Medical or Surgical Practice		27 guineas.	
	Both together		40 guineas.	
	Perpetual Medical or Surgical Practice		40 guineas.	
	Both together		70 guineas.	

**B**. Qualified Medical Practitioners who desire to attend the Practice of the Hospital, and do not require certificates of attendance for the purpose of enabling them to present themselves for examination at any of the Qualifying Boards, may, on payment of a conjoint fee, obtain tickets admitting them to the Practice of this Hospital as well as that of the General and Special Hospitals in the Metropolis whose teaching is recognised by the University of London.

All particulars as to fees, conditions of attendance, timetable of Hospital practice, Clinical lectures, etc., may be obtained on application to the Secretary, London Post Graduate Association, West Wing, Examination Hall, Victoria Embankment, W.C.

#### LECTURES, DEMONSTRATIONS AND CLASSES.

Single Courses of Lectures, Demonstrations and Classes may be attended on the following terms :---

- (i.) By payment of 16 guineas for each course—
- Preliminary Science Course (Chemistry, Physics and Biology).
- (ii.) By payment of 10 guineas for each course—

Anatomy; Medicine; Physiology; Post-mortem Inspections and Demonstrations (12 months); Practical Anatomy; Practical Physiology; Surgery; Advanced Practical Physiology (including the special fee for material); Zoology; Chemistry and Practical Chemistry; Biology (University of London "pass" course).

(iii.) By payment of 5 guineas for each course—

Anatomy Demonstrations; Biology for Conjoint Diploma; Chemistry; Experimental Physics; Materia Medica (Pharmacology and Therapeutics); Forensic Medicine; Midwifery: Morbid Histology with Pathological Classes; Operative Surgery (including the special fee for material); Pathology with Morbid Histology; Practical Chemistry; Bacteriology.

- (iv.) By payment of 4 guineas for each course— Practical Medicine; Practical Obstetrics; Practical Surgery; Mental Physiology and Pathology.
- (v.) By payment of 3 guineas for each course— Ophthalmic Surgery; Mental Diseases; Pathology; and the Revision Classes in the various subjects.

NOTE.—The fees paid by a student who enters for classes in any one or more of the subjects for the Preliminary Scientific M.B. (Lond.) Examination, or the First Conjoint M.R.C.S., L.R.C.P. will, provided that he passes the examination before entering as a First Year student, be regarded as part payment of the Entrance Fee of twenty guineas.

The same regulation applies to a University or other student entering for classes in Anatomy, Physiology and Pharmacology, provided that he passes the examination in these subjects previously to entering as a Third. Year student.

## III. FEES FOR COURSES NOT INCLUDED IN THE COMPOSITION FEE.

A. Final F.R.C.S. England :--Six weeks' course ... ... ... ... 15 guineas.

D. Materials and apparatus for Practical Classes :---

An extra charge towards the cost of materials and apparatus is made to Students attending the following Practical Classes :—

- Advanced Operative Surgery, Advanced Practical Physiology, Advanced Practical Chemistry, Practical Pharmacy: three guineas.
- Elementary Practical Physiology, Elementary Practical Chemistry: two guineas.
- Microscopic Pathology, Practical Bacteriology, Practical Toxicology, Practical Biology: one guinea.

Elementary Operative Surgery: half-a-guinca.

Practical Anatomy: £1 5s. for each year.

Cheques should be made payable to Dr. H. L. EASON.

## THE CLUBS' UNION.

The CLUBS' UNION was formed in 1891 by the amalgamation of the various Clubs and Societies then existing in the Medical School. Several additional Clubs have since become affiliated, and at the present time the Union consists of the following constituent institutions:—The Football Clubs, The Athletic Club, The Bicycle Club, The Cricket Club, The Guy's Hospital Gazette, The Lawn Tennis Club, The Physical Society. The Christian Union, The Students' Club, The Debating Society, The Rifle Association, The Dental Society, and The Swimming Club. By the payment of an annual subscription of two guineas any Student of the Hospital obtains the privileges of membership of all the constituent institutions. He is thus enabled to take full advantage of the opportunities offered by the various Clubs and Societies for recreation and social intercourse at an expense far less than before the Union was instituted.

For all Students except those who reside in the immediate neighbourhood of the Hospital membership of THE STUDENTS' CLUB is almost a necessity. Established in 1887 in order to obviate the inconvenience which was experienced by those engaged about the Hospital in obtaining their meals within a reasonable distance of their work, the Club was at first accommodated in a vacant Ward in the Medical Building. The present premises are situated in the College. They consist of a large dining hall; a reading and conversation room where smoking is allowed, and where afternoon tea and other light refreshments are served; a reading room and library, well stocked with books of general literature; a gymnasium, to which is attached a shower-bath; and lavatory Breakfasts, luncheons and dinners are accommodation. served at moderate charges. The Pavy Gymnasium, which was built and furnished by the liberality of Dr. Pavy, is open daily for practice, and during the Winter Session instructors in Boxing, Fencing and Gymnastics attend.

By attending the meetings of THE PHYSICAL SOCIETY the Student has opportunities of listening to papers upon medical, surgical, and allied subjects, and the discussion which follows the reading of the papers affords him practice in public speaking and debate. As a Member of the Union he receives the Guy's Hospital Gazette, "a Journal of Hospital News, Medicine, and Surgery, conducted by the Students of the Medical School" which is published fortnightly throughout the academical year.

Recognising the importance of healthy recreation for Students engaged for so great a part of the day in the Dissecting-room Laboratories, and Wards, the Governors and Medical Staff have erected a Fives Court in the grounds of the Hospital, and in the College the liberality of Dr. Pavy has provided the Gymnasium above mentioned.

Whilst the Gymnasium and Fives Court are particularly valuable for those whose duties compel them to remain within the precincts of the Hospital, the Athletic, Bicycle, Cricket Football, Lawn Tennis, and Swimming Clubs afford healthy recreation at other times to Members of the Union. THE GROUND OF THE CLUBS' UNION, which is under the control of the Council, is situated close to the Honor Oak Park Station on the London, Brighton and South Coast Railway, and to the Crofton Park Station of the South Eastern and Chatham Railway. It is nine acres in extent, and is the headquarters of the Football, Cricket, Athletic, and Lawn Tennis Clubs. Under such restrictions as are found necessary by the Committees of the various Clubs and are approved by the Council of the Clubs' Union, every Member of the Union has opportunities of practising and taking part in matches and in the various sports and games. There is a large Pavilion on the ground, where refreshments are obtainable by Members of the Union.

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## ADDENDA.

## **REGULATIONS OF THE GENERAL MEDICAL COUNCIL**

#### IN REGARD TO THE

## **Registration of Medical and Dental Students.**

#### PRELIMINARY EXAMINATION.

1. Subject to such exceptions as the Council may from time to time allow, every Medical Student shall, at the commencement of his Studentship, be registered in the manner and under the conditions prescribed by the *Standing Resolutions* of the Council.

2. No person shall be registered as a Medical or Dental Student who has not attained the age of sixteen years; and for the purpose of ensuring the observance of this *Regulation*, every applicant for registration in the *Students' Registers* shall be required to produce satisfactory evidence that this age has been attained.

3. No person shall be allowed to be registered as a Medical Student unless he shall have previously passed a recognised Preliminary Examination in the subjects of General Education, as hereinafter set forth in clause 7 (page 6).\*

4. It shall be delegated to the Education Committee to prepare and issue, from time to time, a List of Examining Bodies whose Examinations fulfil the conditions of the Medical Council as regards General Education.

5. Testimonials of Proficiency granted by Educational Bodies, according to the List, in Clause 7,\* shall be accepted, the Council reserving the right to add to or take from the list.

6. A Degree in Arts of any University of the United Kingdom, or of the Colonies, or of such other Universities as may be specially recognised from time to time by the Medical Council, shall be considered a sufficient Testimonial of Proficiency.

8. Requirements as to the subjects of General Education to be included in the recognised preliminary examinations in Arts, subject to conditions in Clause 7, p. 6\*;—

(a) English (Grammar; Paraphrasing; Composition; questions on English History and Geography).

(b) Latin (Grammar; Translation into English from unprescribed Latin books; Translation into Latin of a continuous English passage, and of short idiomatic English sentences.<sup>†</sup>

(c) Mathematics (Arithmetic; Algebra, including easy quadratic equations; Geometry, including the subject-matter of *Euclid*, books i, ii, iii, and simple deductions).

(d) One of the following subjects:-

(a) Greek (Grammar; Translation into English from unprescribed Greek books; Translation into Greek of short idiomatic English sentences); or

 $(\beta)$  A Modern Language (Grammar; Translation into English from unprescribed books; Translation of a continuous English passage, and of short idiomatic English sentences.

\*For copy of Regulations with list of Examining Bodies whose examinations fulfil the conditions of the General Medical Council as regards registration, application should be made to the Council's publishers, Messrs. Spottiswoode & Co., Ltd., 54, Gracechurch Street, London, E.C.

+In the case of Natives of India or other Oriental countries, whose vernacular is other than English, an Examination in a classical Oriental language may be accepted as equivalent to an Examination in Latin.

## UNIVERSITY OF LONDON.

## Matriculation Examination.

#### INSTRUCTIONS TO CANDIDATES.

All communications relative to these Regulations must be addressed "To the Principal, University of London, South Kensington, S.W."

1. Applications for Forms of Entry must be made to the Principal by post-card, and not more than twelve weeks before the first day of the Matriculation Examination.

2. Every Candidate's Form of Entry, duly filled up, must be returned to the Principal by post and registered not more than eight weeks before the commencement of the Examination, and with it, in the same cover, must be sent (a) the Candidate's Certificate of Age and (b) his Fee for the Examination.

3. No name will be placed on the List of Candidates unless the *Entry*-Form, Certificate and Fee shall have been received together at the University on or before the date mentioned in the Regulations in respect of each Examination, on which day the List will be closed.

4. At the date assigned on the Entry-Form, but not previously, each Candidate's Completion of Entry will be acknowledged, his Certificate will be returned, and a Number, by which he is to be designated throughout the Examination, will be assigned to him.

5. The Age of a Candidate with regard to entry is reckoned up to and inclusive of the first day of the several Examinations, that day being computed to fall as late as the Regulations will allow. The three dates in the case of the Matriculation Examinations are January 14th, June 14th, and September 15th. Only such persons therefore as shall have completed their sixteenth year on or before one or other of those dates will be admissible to the January, June or September Examination, as the case may be.

6. Any representation which Candidates may desire to make on the subject of their Examination must be made to the Principal and not to the Examiners.

[The Classified Pass List will be published as a Supplement to the London University Gazette, and will be sent. as soon as copies are available, to every College or School from which any successful Candidate has immediately proceeded to the Examination; and to every successful Candidate who returns, duly stamped and addressed, the envelopes sent to him with the Entry-Form.

[Unsuccessful Candidates will be informed of the Subjects in which they have failed, as soon as possible after the publication of the Pass List.

[The Principal cannot undertake to answer applications by telegram or otherwise, asking for information communicated or to be communicated in accordance with the preceding paragraphs. The University can take no cognisance of, or responsibility for, private arrangements made by Candidates or their friends with any person whatever for the supply of telegraphic or other information as to the results of Examinations.

[The Papers set at the Matriculation Examinations of the University in January and June, 1903, will be reprinted in Vol. I., of the Calendar for 1903-4, which will be supplied on receipt of the nett price, 3s. 6d., postage 4d. Application must be made direct to the University, South Kensington, S.W.]

## Matriculation.

Candidates for any Degree in this University, unless admitted under Statute 113,<sup>1</sup> or under the second clause of Statute 116,<sup>2</sup> must have passed the Matriculation Examination at least three years previously to the Final Examination for a First Degree.<sup>3</sup>

Students admitted under Statute 113, or under Statute 116, upon a qualification other than the Matriculation Examination, must pay a Registration Fee of £2 to the appropriate Registrar.

The Matriculation Examination and all other Examinations of the University are open to men and women alike.

There shall be three Examinations for Matriculation in each year; one commencing on September 15th, if that day be a Monday, or if not, on the Monday next preceding the 15th; one on the Second Monday in January; and the third on the second Monday in June (or July, as may be hereafter determined).<sup>4</sup>

Every Candidate for the Matriculation Examination must apply to the Principal for a Form of Entry, on or before August 24, which must be returned fourteen days before the commencement of the September Examination; or must apply for a Form of Entry on or before November 25th, which must be returned on or before December 1st for the January Examination; or must apply for a Form of Entry on or before April 25th, which must be returned on or before May 1st, for the June (or July) Examination; accompanied in each case by a Certificate showing that the Candidate has completed his Sixteenth year,<sup>5</sup> and by the proper Fee.<sup>6</sup>

Every Candidate entering for the Matriculation Examination must pay a Fee of Two Pounds. If a Candidate withdraws his name before the last day of entry to the Examination the Fee shall be returned to him. If he fails to present himself at the Examination he shall be allowed to enter for the *next following* Matriculation Examination on payment of a Fee of One Pound. If he retires after the commencement of the Examination, or fails to pass it, the full Fee of Two Pounds shall be payable upon every re-entry.<sup>7</sup>

1 See Appendices to these Regulations, No. I, Section 1.

2 See Appendices to these Regulations, No. I, Section 2.

<sup>3</sup> For Privileges and exemptions on account of having passed this Examination, see Appendix III.

The Medical and Surgical Degrees of this University are registrable qualifications, and it is not necessary for Students to register as Medical Students in order to qualify for the Examinations for these Degrees. Compliance with the University Regulations is sufficient. For the diplomas of certain other licensing bodies, however, Registration as a Medical Student by the General Medical Council is a necessary preliminary, and, under the present Regulations of the Council, those desiring to use the Matriculation Examination of this University as a qualification for registration must show that they have passed in Latin, and in Greek or a modern Foreign Language.

in Latin, and in Greek or a modern Foreign Language. 4 The Examinations in January and June (or July), but not that in September, may be held not only at the University, but also under special arrangement in other parts of the United Kingdom, or in the Colonies.

<sup>5</sup> A Certificate from the Registrar General in London or from the Superintendent Registrar of the District, or a certified copy of the Baptismal Register, or a Declaration of the Candidate's age made before a Magistrate or a Commissioner of Oaths by his parent or Guardian, or by the Principal of his School, or by the Candidate, if of full age, will be accepted. In any case in which the name used by the Candidate differs from that given in the Certificate, a similar Declaration must be produced in support of the change.

<sup>6</sup> As Candidates cannot be admitted after the List is closed, any Candidate who may not have received a Form of Entry within a week after applying for it should communicate immediately with the Principal, stating the exact date of his application and the place where it was posted.

<sup>7</sup> Candidates who entered for the Matriculation Examination in or before January, 1902, will for the present be admitted to subsequent Matriculation Examinations upon payment at every such entry of a Fee of One Pound, provided that they comply with the above Regulations. Candidates who have passed the Matriculation Examination will be admitted to any subsequent Matriculation Examination with a view to passing in one or more additional subjects, on payment of a fee of One Pound for a single subject and of Two Pounds for two or more subjects.

The Examination shall be conducted by means of Printed Papers; but the Examiners shall not be precluded from putting, for the purpose of ascertaining the competence of the Candidate to pass, *vivâ voce* questions to any Candidate in the subjects in which they are appointed to examine.

Candidates shall not be approved by the Examiners unless they have shown a competent knowledge in each of the following five subjects, according to the details specified under the several heads :-- 1. English (one paper of three hours). 2. Elementary Mathematics (two papers of three hours each). 3. Latin, or Elementary Mechanics, or Elementary Physics-Heat, Light, and Sound-or Elementary Chemistry, or Elementary Botany (one paper of three hours in each subject). 4 and 5. Two of the following subjects, neither of which has already been taken under Section 3 (one paper of three hours in each subject). If Latin be not taken, one of the other subjects selected must be another Language from the list, either ancient or modern :- Latin, Greek, French, German, Arabic,\* Sanskrit,\* Spanish,\* Portuguese,\* Italian.\* Hebrew,\* Ancient History, Modern History, Logic,<sup>1</sup> Physical and General Geography, Geometrical and Mechanical Drawing,<sup>2</sup> Mathematics (more advanced), Elementary Mechanics, Elementary Chemistry, Elementary Physics-Heat, Light, and Sound, Elementary Physics-Electricity and Magnetism. Elementary Biology-Botany, Elementary Biology-Zoology.\*

The following are the particulars of the foregoing subjects of examination :--

#### I.-ENGLISH.

The paper will test knowledge and command of English by questions in composition, précis-writing, paraphrase, and analysis of sentences. Some of the questions will involve a knowledge of the most salient facts in English History and General Geography.

# II.-ELEMENTARY MATHEMATICS.

1. ARITHMETIC. The principles and processes of arithmetic applied to whole numbers and vulgar and decimal fractions. The metric system. Approximations to a specified degree of accuracy. Contracted methods of multiplication and division of decimals. Ratio and proportion; percentage. Averages. Practical applications of arithmetic.

2. ALGEBRA. Symbolical expression of general results in arithmetic. Algebraic laws and their applications. Factors of simple binominal or quadratic expressions. Equations of the first or second degree, and problems leading thereto. Square root. Graphs of simple rational integral algebraic functions. Arithmetic and harmonic progression. Geometric progression.

\*Candidates for Examination in these subjects must give notice and pay their Fee at least two months before the commencement of the Examination.

No fee is payable for a first entry for Logic alone; for a second or subsequent entry the fee of  $\pounds 5$  must be paid, which will include a first entry to the Intermediate Examination in Divinity.

2 In this Examination special stress is laid on competence in drawing.

<sup>1</sup> In and after 1904 Candidates for the Degree of B.D. must have taken Logic as one of the alternative subjects either at the time of passing the Matriculation Examination or at some subsequent Matriculation Examination (unless they have passed in Logic at an Intermediate Examination in Arts, or in Mental and Moral Science or Logic and Methodology at a B.Sc. Examination).

3. GEOMETRY.—The subjects of Euclid I.—IV., with simple deductions, including easy loci and the areas of triangles and parallelograms of which the bases and altitudes are given commensurable lengths. (Euclid's proofs will not be insisted upon.)

#### III.—OPTIONAL LANGUAGES.

1. LATIN. The paper shall contain passages to be translated into English from Latin books not previously prescribed, together with questions on Grammar and simple and easy sentences of English to be translated into Latin.<sup>†</sup>

2. GREEK. The paper shall contain passages to be translated into English from Greek books not previously prescribed, together with questions on Grammar and simple and easy sentences of English to be translated into Greek.\*

3. FRENCH. The paper shall contain (1) passages for translation from French, (2) a piece of easy translation into French, or, as an alternative, an essay of a simple character to be written in French, (3) questions on Grammar, limited to Accidence and Elementary Syntax.

4. GERMAN. The paper shall contain (1) passages for translation from German, (2) a piece of easy translation into German, or, as an alternative, an essay of a simple character to be written in German, (3) questions on Grammar, limited to Accidence and Elementary Syntax.

5. \*SPANISH, \*PORTUGUESE, \*ITALIAN. The paper shall contain (1) passages for translation from the language in question, (2) a piece of easy translation into the language in question, or, as an alternative, an essay of a simple character to be written in the language in question, (3) questions on Grammar, limited to Accidence and Elementary Syntax.

6. \*ARABIC. The paper shall contain easy passages for translation into English, and questions on Grammar.

7. \*HEBREW. The paper shall contain easy passages for translation into English, with passages for pointing, and questions on Grammar and easy Composition.

8. \*SANSKRIT. The paper shall contain easy passages for translation into English, and questions on Grammar.

#### IV.-HISTORY.

1. ANCIENT. The general course of Greek and Roman History, and an outline of the earlier monarchies.

The questions will be framed to test the general conceptions of history and historical development rather than technical detail.

2. MODERN. The general course of English history from 1485 to the death of Queen Victoria, with some reference to the contemporary history of Europe and Colonial developments.

The questions will be framed to test the general conceptions of history and historical development rather than technical detail.

\* See ootnote on page 32.

<sup>+</sup> Special stress is laid on accuracy in the answers to the Grammar questions, and on the correct rendering of English into Latin and Greek respectively.

### V.-LOGIC.1

The Term : Classification of terms, denotation and connotation. Division, Definition, the Predicables.

The Proposition : Classification of propositions, reduction of sentences to logical form.

Laws of thought, opposition of propositions, immediate inference.

The Syllogism: Moods and figures, the expression of arguments in syllogistic form.

Hypothetical and disjunctive propositions and arguments.

Inductive reasoning in its various forms.

Observation and experiment: Canons of These three scientific induction.

Combination of induction and deduction ; hypothesis and explanation. Fallacies.

These three subjects will be treated in a specially elementary manner.

r anacies.

# VI.-PHYSICAL AND GENERAL GEOGRAPHY.

The following regions in decreasing detail: -(a) England and Wales, (b)Scotland and Ireland, (c) Europe, the Mediterranean, the North Atlantic, North America and Greenland, (d) the remaining Continents. Recapitulation from the point of view of the British Empire.

Attention should be directed to the following aspects of the several regions :—The broad contrasts and chief features of the land-relief. The chief features of the coastal outline as related to those of the relief. Th disposition of the water-partings and of the chief river basins. The winds and sea-currents, distribution of rainfall, the climatic contrasts, and the resulting agricultural contrasts. The districts of exceptionally dense or rare population considered in relation to their position, natural resources, and industrial activities. The arrangement of the political divisions upon the land relief and with reference to the drainage system. The analysis of the positions of the great towns.

Candidates will be expected to understand the main physical causes of the phenomena they describe, such as variations of atmospheric temperature and pressure, their seasonal and regional distribution; the causes of precipitation, winds—their cause and prevalence in different regions, the interpretation of weather charts, and the meaning of the net-work and other conventional symbols employed in maps. Time need not be spent in elaborate map-drawing. The answers in the examination should be illustrated, where necessary, by simple diagrams, correct in general proportion, but without detail. Candidates may be expected to identify maps without names, to insert upon such maps the position of geographical features, and to work problems as to local time.

## VII.—GEOMETRICAL AND MECHANICAL DRAWING.

1. PLANE GEOMETRY. Construction of scales, triangles, quadrilaterals and polygons. Problems on circles and tangents and on areas of plane

No fee is payable for a first entry for Logic alone; for a second or subsequent entry the tee of  $f_5$  must be paid, which will include a first entry to the Intermediate Examination in Divinity.

<sup>&</sup>lt;sup>1</sup> In and after 1904 Candidates for the Degree of B.D. must have taken Logic as one of the alternative subjects either at the time of passing the Matriculation Examination or at some subsequent Matriculation Examination (unless they have passed in Logic at an Intermediate Examination in Arts, or in Mental and Moral Science or Logic and Methodology at a B.Sc. Examination).

figures. Simple problems on loci, including paths of points in elementary linkwork. Construction of Archimedean spiral, ellipse, cycloid, and involute of circle, with their tangents and normals.

2. SOLID GEOMETRY. Elementary projections of points, lines, planes, inclined surfaces, and solids, including the cylinder, cone and sphere. Simple sections. Projection of additional plans and elevations. Isometric or oblique projection, without using "isometric scale," of simple plane surfaces and solids. Developments of the surfaces of simple solids; elementary problems in interpenetration of prisms, cylinders and cones, and developments of penetrated surfaces. Projection of simple helix and square-threaded screw.

3. MACHINE DRAWING. Making scale drawings, two or more views, with simple sections of elementary machine parts, from rough, partlydimensioned sketches.

#### VIII.—MATHEMATICS (more advanced).

1. ALGEBRA. Theory of indices; logarithms and the use of logarithmic tables. Binomial theorem for a positive integral index.

2. GEOMETRY. Similar figures. Mensuration of the circle. Elementary co-ordinate geometry of the straight line and circle.

3. TRIGONOMETRY. Up to and including the solution of triangles, together with the practical solutions of triangles and applications, and numerical examples involving the use of logarithmic and other tables.

# IX.-OPTIONAL SCIENCES.

The Examinations in Science shall aim at ascertaining whether candidates possess a knowledge of fundamental scientific methods, acquired by observation of nature or by a simple course of experiment in physical measurement, or by the investigation of simple problems and commonly occurring phenomena illustrating natural laws.

1. ELEMENTARY MECHANICS. Elementary notions of velocity and acceleration. Motion of a body with constant acceleration. Resolution and composition of velocities, accelerations, &c. Elementary notions of mass and momentum. Elementary notions of force as measured by rate of change of momentum. Newton's laws of motion. Kinetic energy, and work. Units of force, and measurement. Balancing of forces. Torques or moments. Conditions for the equilibrium of three parallel forces. Resolution and composition of parallel forces in one plane. Centre of parallel forces. Centre of gravity. Mass centre. Stable, unstable, and Neutral equilibrium. Conditions for the equilibrium of three forces not parallel. Triangle and parallelogram of forces. Moments. Simple illustrations of conditions of equilibrium and of the principle of work, as in levers, pulleys, the inclined plane, &c. Pressure in liquids; variations with depth. Transmission of liquid pressure; hydraulic press. Pressures on immersed and floating bodies. Density; methods of determining Relative Densities. Relation between volume and pressure in gases. Atmospheric pressure.

2. ELEMENTARY CHEMISTRY. Examples of chemical change as distinguished from physical or mechanical change. Evidence of the indestructibility of matter. Composition and chief chemical and physical properties of atmospheric air and water. Characteristics of definite chemical compounds as distinguished from mixtures. Chief sources and properties of oxygen, hydrogen, carbon, sulphur, phosphorus, nitrogen, chlorine, and their chief compounds. Composition and properties of silica. Combining proportions by weight and volume. Atomic theory. Symbols and their use. Nomenclature. General characteristics of metals as a class. Interaction of metals, acids and bases. The more obvious phenomena of electrolysis. Nature of salts. Facts relating to the chemistry of daily life: combustion, flame, incandescence. Coal, coke, wood, charcoal, and action of heat on these substances. Causes of hardness in natural waters. Lime, chalk and washing soda, and their uses. Chemical nature of oil and fat, soap, mineral oil, sugar, starch, alcohol. Common vegetable acids—acetic, oxalic, tartaric. Recognition of carbon, hydrogen and nitrogen in organic substances. Glass, clay and pottery.

Candidates will be required to give evidence by their answers that they have seen experiments illustrative of all the subjects included in the Syllabus, and that they have themselves performed a variety of simple qualitative and quantitative experiments.

The questions set will have regard to the conditions under which the subject may best be experimentally taught in schools.

3. ELEMENTARY PHYSICS (Heat, Light and Sound). Heat. Temperature. Construction and use of instruments for the measurement of temperature. Expansion of solids and liquids, with rise of temperature Effect of change of temperature on the volume and pressure of gases. Convection in Fluids. Quantity of heat. Specific heat. Change of state. Latent heat. Vapour pressure. Boiling-point. Dew-point. Formation of cloud. Fog and dew. Conduction. Definition of thermal conductivity. Radiation: its emission, propagation, reflexion, refraction and absorption: its relation to light. The mechanical equivalent of heat and modes of determination. The conservation of energy.

Light. Propagation of light. Measurement of velocity. Laws of reflection and refraction. Photometry. Reflexion of plane and spherical surfaces, and the formation of images. Refraction at plane surfaces and by prisms. Minimum deviation. Chromatic dispersion. The formation of images by single lenses. Long and short sight and their correction by lenses. The combination of two lenses to form a simple telescope or microscope.

Sound. The production and propagation of sound. Nature of wavemotion. Amplitude, wave-length, frequency. Experimental determination of the velocity of sound in Air Echoes. Effect of change of temperature on the velocity. Determination of frequency by simple methods. Experimental investigation of the modes of vibration of strings by means of the sonometer. Experimental investigation of the Vibrations of Air in Pipes by resonance to tuning forks. Organ pipes. Position of nodes and antinodes.

The questions set will have regard to the conditions under which these subjects may best be experimentally taught in schools.

4. ELEMENTARY PHYSICS—Electricity and Magnetism. Properties of magnets. Simple phenomena of magnetism and of magnetic induction (influence). Magnetic moment. The magnetic field: Line of force. The law of magnetic force The earth as a magnet. The simpler phenomena of electrified bodies. Conduction and insulation. Electrification by friction and by induction (influence). Quantity of electrification. Distribution of electrification on conductors. Electric field: Strength of field. The law of electric force. Potential. Capacity. Energy of charge. Electric discharge and electric current. Primary and secondary batteries. Magnetic field of current. Current circuits in a magnetic field. Magnetic measurement of current. Galvanometers. Work done by an electric current. Electromotive force. Resistance. Ohm's law: Volt; Ohm; Ampere; Joule; Watt. Heating effects of currents. Elementary phenomena of electrolysis: Faraday's law. Electromagnetic induction: Faraday's law; Lenz's law. Induction coil.

The questions set will have regard to the conditions under which these subjects may best be experimentally taught in schools.

5. ELEMENTARY BIOLOGY-Botany.<sup>1</sup> 1. The members of the plant body -stems, leaves and roots. The form (including branching) and principal modifications of these members. The bud. The inflorescence; its chief types. The structure of the flower and the functions of its parts. Pollination. Fruits and seeds. Adaptations for seed dispersal. Germination. The description of a flowering plant (not necessarily belonging to one of the Natural Orders enumerated below), and a knowledge of the following natural orders, as illustrated by wild or commonly cultivated plants :--Ranunculaceæ, cruciferæ, caryophyllaceæ, leguminosæ, rosaceæ, compositæ, primulaceæ, scrophulariaceæ, salicaceæ, iridaceæ, liliaceæ, gram-[The examination, so far as it relates to the above, will be restricted meæ. to the elementary facts in the morphology and physiology of angiosperms, so far as they can be observed with the naked eye or with a hand lens. Special stress is laid on competence in drawing.] 2. The outlines of the cellular structure of the living plant, as shown, for example, in simple fresh-water algæ. 3. An elementary knowledge of the nutrition of plants and of the simpler experiments on which such knowledge rests. Watercultures. transpiration, photo-synthesis, respiration. Simple methods of measuring growth in shoots and roots. [An elementary knowledge will be assumed on the part of candidates of the chemical and physical properties of the atmosphere and of water, together with some acquaintance with the use of the barometer and thermometer.] 4. Candidates may be expected to show some familiarity with the vegetation characteristic of such localities as a hedge-bank, marsh, moor, &c.

6. \*ELEMENTARY BIOLOGY—Zoology. Candidates will be expected to be acquainted with:—1. The definition and scope of Zoology. 2. The recognition of the commoner types of animals, with an elementary knowledge of their distinctive characters, habits, and modes of life. 3. The general principles of animal life as exemplified by the structures and functions of the vertebrate body, so far as they can be studied by the aid of the simplest appliances. 4. The zoological nature of the most familiar types of invertebrate fossils.

The Examination shall be conducted in the following order +:--

FIRST DAY. Afternoon, 2 to 5. English (1).

SECOND DAY. Morning, 10 to 1. Afternoon, 2 to 5. Elementary Mathematics (2).

THIRD DAY. Morning, 10 to 1. Latin (3). Afternoon, 2 to 5. Chemistry (4), Botany (5), Heat, Light and Sound (6), Mechanics (7).

FOURTH DAY. Morning, 10 to 1. Botany (5), Heat, Light and Sound (6), Mechanics (7), French (8), German (9), Greek (10), Drawing— Geometrical and Mechanical (11), Electricity and Magnetism (12),

1 Candidates should bring a hand-lens, a sharp knife, drawing pencil and india-rubber. \* See note on page 38.

<sup>†</sup> Changes in the details of this order may be found necessary from time to time, but in all such cases due notice will be given to Candidates.

Geography (13), History, Ancient (14), History, Modern (15), Logic (16). Afternoon, 2 to 5. French (8), German (9), Greek (10), Drawing—Geometrical and Mechanical (11), Electricity and Magnetism (12), Geography (13), History, Ancient (14), History, Modern (15), Logic (16), Mathematics, more advanced (17).

Except in the case of Elementary Mathematics, Candidates will only be allowed to take one paper in each subject. Two papers will be set in many other subjects in order to compress the Examination into as short a period as possible, but no candidate will be allowed to take more than one of these papers. No option is allowed as to the order in which they are taken, and if the Candidate does not present himself for examination in a given subject at the right time he will on no account whatever be allowed to take a paper which may be set later on the same subject. It is, therefore, of the greatest importance that Candidates should attend to the following rule :—

Candidates, having selected their subjects in accordance with the Regulations, will be examined in these subjects in the numerical order in which they occur in the above list, and must take each subject on the first possible occasion accordingly.

Thus a Candidate who offers, in addition to English and Mathematics (Elementary), Botany, Mechanics, and French, must take Botany (No. 5) on the afternoon of the third day, Mechanics (No. 7) on the morning of the fourth day, and French (No. 8) on the afternoon of the fourth day. Again, a Candidate who offers Latin, German (9), and Greek (10), must take German in the morning and Greek in the afternoon of the fourth day.

Candidates who take any of the subjects for which two months' notice is required will be informed when the examinations in these subjects will take place.

# APPENDIX.

I.

SECTION 1.—GENERAL REGULATIONS FOR THE ADMISSION OF INTERNAL STUDENTS IN ACCORDANCE WITH THE TERMS OF STATUTES, SECTION 113.

[The Section runs as follows :---

113. Provided also that the Senate may admit as Internal Students and as Candidates for any of the higher degrees (except in Medicine and Surgery) without their having previously taken any lower degree, the following persons (that is to say):

- (1) Graduates of Universities approved by the Senate for this purpose.
- (2) Persons who have passed the examinations required for a degree in some University, approved as aforesaid.
- (3) Persons who have obtained from the University of Cambridge a certificate stating that they have satisfied the examiners in a Tripos Examination qualifying as a Final Examination for a first degree.

(4) Persons who have passed or obtained Honours at the Second Public Examination of the University of Oxford, provided that they have also either passed or obtained Honours at the First Public Examination or have passed such other Examination or Examinations as under the provisions of the University of Oxford are accepted as statutably equivalent thereto.

SECTION 2.—REGULATION FOR THE ADMISSION OF STUDENTS IN ACCORDANCE WITH THE TERMS OF STATUTES, SECTION 116, WITHOUT PASSING THE MATRICULATION EXAMINATION.

The Section runs as follows :---

116. Every Candidate for admission as a student of the University shall pass such entrance or matriculation examination or fulfil such other tests of fitness to be admitted as a student as may be from time to time prescribed.]

Graduates of such British Colonial, and Foreign Universities, as are approved by the Senate for that purpose, and those who have passed all the examinations required for a degree in those Universities, also women who have obtained Tripos Certificates granted by the University of Cambridge, and women who have obtained Certificates showing that, under the conditions prescribed by the Delegacy for local examinations at Oxford, they have passed the Second Public Examination of that University, or have obtained Honours in the Oxford University Examination for Women in Modern Languages, may, on application, be registered as Matriculated Students on payment of the Registration Fee of £2 without passing the Matriculation Examination.

Students who hold the Scotch School Leaving Certificate, having passed on one and the same occasion, in the Higher or Honours Grade in all the subjects required by the Regulations for the Matriculation Examination, and Students who have obtained at an *Abiturienten Examen* the Zeugniss der Reife from a Gymnasium or Real-gymnasium within the German or Austrian Empire, or who hold a Maturitäts-Zeugniss of a Gymnasium or Oberrealschule or an Eidgenossische Maturitäts-Zeugniss of Switzerland, will be registered on the same conditions as the Graduates above referred to.

The standing of Registered Students shall date, for the purposes of External Examinations, from the Matriculation Examination immediately preceding the date of Registration. (See Notice on Title Page.) To secure that a Registration under Statute 116 shall date from any Matriculation Examination, such Registration must be completed before the commencement of the next Matriculation Examination.

Oxford and Cambridge Graduates in First or Second Class Honours can be admitted to their Degree Examination after two years from their Registration.

N.B.- Applications for Registration must be accompanied by the proper Fee and official documentary evidence of qualification in accordance with the above Regulation. Cheques must be made payable to the "University of London" and crossed "London and Westminster Bank, South Kensington Branch." The Fee and evidence must be forwarded together by registered post.

The Matriculation Examination is held in some provincial towns in January and June. A list of these may be obtained on application.

# Preliminary Scientific (M.B.) Examination.

For regulations and particulars of the Examination application should be made to the Academic Registrar, University of London, South Kensington, S.W.

# COLLEGE OF PRECEPTORS,

BLOOMSBURY SQUARE, LONDON, W.C.

# Professional Preliminary Examination.

Recognised by the General Medical Council for registration as Medical or Dental Students.

(A.) A pass in the following subjects in the First Class [or Senior] Examination :- English Language, Arithmetic, Algebra, Euclid, Latin, and either Greek or a modern foreign language.

Candidates may either take all the required subjects at one examination, or they may take part at one examination and the remainder at another. There is no limit to the number of times a Candidate may enter for examination, and he may count towards registration the subjects passed at any two (not more) examinations. Or,

(B.) A pass in the "Medical Preliminary" Examination. Candidates must take Second Class [or Junior] papers in English Language, English History, Geography, Arithmetic, Algebra, Latin (including the "Additional Paper '), and either Greek or a modern foreign language; and a paper covering Books I., II. and III. of Euclid.\* They must at one examination obtain 40 per cent. of the maximum of marks for English subjects (English, History and Geography, taken together), 40 per cent. for Mathematics (Arithmetic, Algebra and Euclid, taken together), 40 per cent. for Latin, and 40 per cent. for Greek or a modern foreign language. Candidates will not be allowed to pass in English subjects unless they satisfy the Examiner in spelling and composition.

The above will also satisfy the requirements of the Royal College of Physicians of London and the Royal College of Surgeons of England as preliminary to the Diplomas of L.R.C.P. and M.R.C.S.

In addition to the examinations held at Midsummer and Christmas, the College of Preceptors holds examinations for Certificates recognised<sup>+</sup> by the General Medical Council, the Royal College of Physicians of London, the Royal College of Surgeons of England, and other bodies, in March and September in each year.

These examinations are for First Class [or Senior] and Second Class [or Junior] Certificates only.

The Autumn examination in 1904 will take place on the 6th, 7th and 8th of September.

The examination will be held in London, and also at the following local centres :-Birmingham, Bristol, Leeds, Liverpool and Manchester.

\* At the March and September Examinations a special Second Class paper is set on Books I., II. and III.; at the Midsummer and Christmas Examinations candidates must take the First Class paper in Euclid.

† A statement of the requirements in each case may be obtained from the Secretary. ‡ Arrangements may be made for holding the Examination at other centres, provided that the local and incidental expenses, including the cost of superintendence, be paid by the candidates examined at such centres.

Candidates are required to give thirty days' written notice to the Secretary of their desire to be examined.

The Fee for the examination is 25s., and is required to be paid twentyone days prior to the examination. No fees will be returned in any case. At the provincial centres a local fee is payable in addition to the examination fee.

The result of the examination will be communicated by post to each candidate about a fortnight after the close of the examination.

## CONDITIONS OF PASSING IN FIRST AND SECOND CLASSES.

# FIRST CLASS [Or SENIOR].

Candidates must pass in six subjects, as follows:—I. Arithmetic; II. English; III., IV., V., VI. Any other four subjects; and must obtain a total of not less than 700 marks. Candidates who obtain 1200 marks and upwards are placed in the Honours division.

A Candidate who fails to pass in the First Class may receive a Certificate of the Second Class, provided that he satisfies the conditions of passing in that class; but such Candidates will not be placed in the Honours Division.

#### SECOND CLASS [OF JUNIOR].

Candidates must pass in *five* subjects, as follows:—I. Arithmetic; II. English; III., IV., V. Any other  $t^{h}ree$  subjects; and must obtain a total of not less than 400 marks.\* Candidates who obtain 750 marks and upwards are placed in the Honours Division.

#### FOR BOTH CLASSES.

In adding up the marks, no credit is given for those which fall below the minimum required to pass in any subject. Spelling and handwriting are taken into account in the award of marks for the pass.

A Candidate who obtains not less than three-fourths of the maximum of marks assigned to *any paper*, provided that such Candidate is qualified to receive a Certificate at the same examination, will be stated to have passed with **Distinction** in that subject.

### SUBJECTS OF EXAMINATION FOR SEPTEMBER, 1904.

### FIRST CLASS [Or SENIOR].

(N.B.—A First-Class Candidate may not be examined in more than 13 subjects.

1. ENGLISH. Grammar, Analysis, and Composition, with *either* Outlines of the History of the Language, or questions on one of the following books:—(a) Shakespeare's "Richard II." (b) Spenser's "Faerie Queene," Book I.

2. ENGLISH HISTORY. The paper in English History will contain questions on the following three periods: -(a) A.D. 1066-1399; (b) 1509-1603; (c) 1603-1715. Only one of the three periods may be taken by any Candidate.

3. GEOGRAPHY, including Physical and Mathematical.

Candidates may confine their answers to the Physical and Mathematical Section of the Paper.

A syllabus of the requirements in Physical Geography may be obtained from the Secretary.

<sup>\*</sup> For the First Class the maximum of marks is 200 in each subject, except in Latin, in which the maximum is 300. For the Second Class the maximum is 150 in each subject, except in the English papers (b) and (c), in which it is 200.

4. ARITHMETIC.

5. ALGEBRA, including Quadratic Equations, with simple questions on Surds, Indices, Progressions, Ratio, Proportion, and Variation. Alternative questions will be set on Graphs, for which squared paper will be provided.

6. GEOMETRY. Euclid. I.—IV. and VI., 1-20, or the portions of Geometry treated therein, with riders. Candidates who show a satisfactory knowledge of Books I.—III. will be allowed to pass.

7. FRENCH. 8. GERMAN.

9. ITALIAN.

10. SPANISH.

(a) Translation from the foreign language;
(b) Grammar;
(c) Translation into the foreign language or Free Composition in the foreign language. Candidates are expected to attempt all three of the sections (a), (b),
(c), and, in order to pass, they must satisfy the Examiner in at least two of the sections.

11. LATIN. Every Candidate must take a Paper of "Unseen" Passages for translation into English, together with a Paper on one of the following :—

(a) Cæsar, Gallic War, Books II. and III.; (b) Virgil, Æneid, Book I.

Each of the papers on set books will contain passages for translation into English, grammar and other questions arising out of the book, and sentences for translation into Latin. In order to pass in Latin, a Candidate must successfully attempt at least one of the "unseen" passages, and must also satisfy the Examiner in at least three of the following four items:—(a) Translation into English from the "unseen" passages, (b) Translation into English from the selected book, (c) Grammar and other questions, (d) Translation into Latin.

12. GREEK. Xenophon, Anabasis, Book III. Greek prose composition of a simple kind is required, and the paper will contain grammar and questions arising out of the book set, as well as short and easy passages for translation from authors not herein specified. Candidates must satisfy the Examiner in two parts of the paper.

13. INORGANIC CHEMISTRY. A syllabus of the requirements may be obtained from the Secretary.

14. MECHANICS. Comprising Statics, Dynamics, and Hydrostatics.

15. SOUND, LIGHT, AND HEAT. In this paper, candidates are not required to answer more than two-thirds of the questions set. Candidates will, therefore, be able to obtain full marks, either by confining themselves to two of the three branches, or by selecting questions from all three parts of the paper.

16. MAGNETISM AND ELECTRICITY.

17. NATURAL HISTORY. (a) Physiology, (b) Zoology, (c) Botany, (d) Geology. Each paper will contain two sections, elementary and advanced. A Candidate will not be examined in more than two sections; but may take either both sections of one subject, or the elementary sections of two subjects. Candidates must qualify either in *the whole* of one paper, or in both of the elementary sections of two papers.

Two papers in Zoology are set: (1) Vertebrata, (2) Invertebrata. Candidates may take either paper, not both.

A schedule of the requirements in Botany may be obtained from the Secretary.

## SECOND CLASS [OF JUNIOR].

# (N.B.-A Second Class Candidate may not be examined in more than 10 subjects.)

1. ENGLISH. Candidates may take either (a) a paper on general English grammar and analysis of sentences, or a paper on one of the following books :- (b) Shakespeare's "Richard II.," Acts I., II., III.; (c) Scott's "Marmion," Cantos I., II., III. and VI. (including Introduction to First Canto; in each case with analysis of simple sentences and easy complex sentences, and grammatical and other questions based on the text. All Candidates will be required to write a short English Essay, and to paraphrase a passage of poetry; and no Candidate will be allowed to pass who does not give evidence of his ability to spell correctly.

2. ENGLISH HISTORY. The paper in English History will contain questions on three alternative periods: (a) 1066-1485; (b) 1485-1688; (c) 1688-1830. Only one of the three periods may be taken by any Candidate.

3. GEOGRAPHY. Candidates are required to show a general knowledge of the chief mountain ranges, rivers, outlines and boundaries of continents; names and general position of countries and their capitals, with the meaning and use of ordinary geographical terms; and a more detailed knowledge of one of the following, at the option of the Candidate: -(a) The British Empire, including Asiatic Possessions (about one-third of the paper will bear on the British Isles, with special reference to manufactures and commerce); (b) Physiography. A Syllabus of the requirements in Physiography may be obtained from the Secretary.

4. ARITHMETIC, including simple questions on the Metric System; but excluding cube root, problems on rate and time in interest, compound interest, and stocks.

5. ALGEBRA, including Simple Equations, Fractions, and easy Quadratic Equations of one unknown quantity. Alternative questions will be set on Graphs, for which squared paper will be provided.

(a) For intending Medical, Dental, and Veterinary 6. GEOMETRY. Students, Euclid, Books I., II., III. (or the subjects treated therein), with riders; (b) For other Candidates, Euclid, Book I., together with either Book II. or Props. 1-19 of Book III. (or the subjects treated therein), with riders.

7. FRENCH. ) 8. GERMAN. 9. ITALIAN.

10. SPANISH.

(a) Translation from the foreign language; (b) Grammar; (c) Translation into the foreign language or Free Composition in the foreign language. Candidates are expected to attempt all three of the sections (a), (b), (c), and in order to pass, they must satisfy the Examiner in at least two of the sections.

11. LATIN. In Latin, Candidates are allowed to choose between a paper of "unseen" translation and a paper on one of the following books :- Cæsar, Gallic War, Book III. Virgil, Æneid, Book I., 1-493.

Each paper will contain (a) passages for translation into English, including, in the case of papers on set books, at least one "unseen" passage; (b) Grammar and questions arising out of the books set for translation into English; (c) Simple English sentences for translation into Latin. In order to pass, Candidates must satisfy the Examiner in at least two of the three divisions (a), (b), (c).

An additional *optional* paper (for which an additional 75 marks may be obtained) will also be set, containing a more difficult unseen passage for translation into English, and an easy continuous passage for translation into Latin.

12. GREEK. Xenophon, Anabasis, Book III., chap. 1-3, with questions on accidence, and simple sentences for translation into Greek. Candidates must satisfy the Examiner in at least two parts of the paper.

13. INORGANIC CHEMISTRY. A Syllabus of the requirements may be obtained from the Secretary.

14. MECHANICS. Comprising Statics, Dynamics, and Hydrostatics.

15. MAGNETISM AND ELECTRICITY.

# H. W. EVE, M.A., Dean.

C. R. HODGSON, B.A., Secretary.

# First Conjoint (L.R.C.P., M.R.C.S.) Examination.

For regulations and particulars of the Examination, application should be made to the Secretary, Examination Hall, Victoria Embankment, London, W.C.

#### TEXT BOOKS RECOMMENDED-

Chemistry.-Luff and Page's Chemistry. Cassell, price 7s. 6d.

Materia Medica.—Hale White's Materia Medica. Churchill, price 7s. 6d. Mitchell Bruce's Materia Medica. Cassell, price 7s. 6d.

Biology.-Mitchell's Biology. Methuen, price 6s. For "Conjoint" Biology.

Anatomy.—Gray's Anatomy. Longmans, price 36s. Cunningham's Text Book of Anatomy. Pentland, price 25s. Morris's Human Anatomy, Churchill, price 30s. Cunningham's Manual of Practical Anatomy, 2 vols. Pentland, 12s.6d. each—for practical work.

For University and F.R.C.S. Students. Keith's Embryology or Quain's Embryology, vol. i., part i. Longmans, price 6s. 9d.

Physiology.—Starling's Physiology. Churchill, price 12s. 6d. Halliburton's Physiology. Murray, price 14s. Schäfer's Essentials of Histology. Longmans, price 9s. Practical Physiology. Arnold, price 15s.

