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WESTERN ONTARIO

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ANNUAL ANNOUNCEMENT

— OF THE —

MEDICAL DEPARTMENT

— OF THE —

WESTERN UNIVERSITY



SESSION 1890-91.

LONDON, ONTARIO,

CANADA.

JUNE, 1890.

R. Southam, Printer, Talbot-St., London, Ont.

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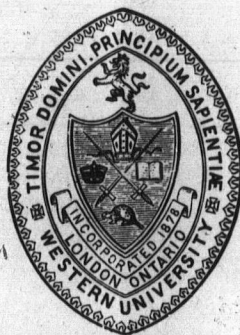
ANNUAL ANNOUNCEMENT

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SESSION 1890-91.

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R. Southam, Printer, Talbot-St., London, Ont.

The Senate of the Western University.

THE REV. ALFRED PEACHE, D. D.	R. M. BUCKE, Esq., M. D.
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	R. GIBSON, M. D.

Visitor.

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Professor of Medical Jurisprudence and Toxicology; Representative to Medical Council.

556 Richmond Street.

JOHN M. FRASER, B.A., M.D.,
M.R.C.S., ENGLAND.

Professor of the Principles and Practice of Medicine; Member of the Consulting Staff of the London General Hospital.

Corner of York and Talbot Streets.

H. ARNOTT, M.B.,

Professor of Clinical Medicine; Member of the Staff of the London General Hospital.

228 Queen's Avenue.

R. M. BUCKE, M.D.C.M., F.R.S.C.,

Medical Superintendent of the Asylum for the Insane; Professor of Mental Diseases.

WM. SAUNDERS, F.R.S.C.,
Emeritus Professor of Materia Medica.
Director of Experimental Farm, Ottawa.

JAMES H. BOWMAN,

Professor of Theoretical Chemistry; Graduate of the Ontario College of Pharmacy.

839 Dundas Street.

F. R. ECCLES, M. D.,
M.R.C.S., ENGLAND; F.R.C.S., EDINBURGH; F.O.S., LONDON.

Professor of Gynecology; Member of the Staff of the London General Hospital.

Corner of Queen's Avenue and Wellington Street.

WM. WAUGH, M.D., C.M.,

Professor of the Principles and Practice of Surgery; Registrar of the Medical Faculty.

447 Ridout Street.

J. WISHART, M.D., C.M.,
F.R.C.S., EDINBURGH; M.R.C.S., ENGLAND.

Professor of Clinical Surgery; Member of the Staff of the London General Hospital; Surgeon to St. Joseph's Hospital and the Mount Hope Orphan Asylum.

195 Dufferin Avenue.

W. H. MOORHOUSE, M.B.,
L.R.C.S. AND L.R.C.P., EDINBURGH.

Professor of Principles and Practice of Medicine; Member of the Staff of the London General Hospital.

249 Queen's Avenue.

D. B. FRASER, M.B.,

M.R.C.S., ENGLAND; L.R.C.P. & S., EDINBURGH.

Professor of Pathology and Histology.

G. P. JONES, M.B.,

Professor of Obstetrics, Diseases of Children, and Sanitary Science.

Corner Piccadilly and Richmond Streets.

W. E. SAUNDERS,

Professor of Practical Chemistry.

Graduate of the Philadelphia College of Pharmacy.

240 Central Avenue.

W. J. MITCHELL, M.D.,

Professor of Anatomy, General, Descriptive and Surgical; Member of the Staff of
the London General Hospital.

589 Richmond Street.

H. A. MCCALLUM, M.D.,

Professor of Physiology.

468 Dundas Street.

H. MEEK, M.D.,

Professor of Therapeutics; Member of the Staff of the London General
Hospital.

331 Queen's Avenue.

G. HODGE, M.D.,

Professor of Materia Medica, and Assistant Professor of Clinical Medicine.

234 Queen's Avenue.

JOHN DEARNESS,

Public School Inspector.

Professor of Botany and Zoology.

750 Maitland Street.

H. T. H. WILLIAMS, M.D.,

Demonstrator of Anatomy.

Richmond Street.

J. D. BALFOUR, M.D.

L.R.C.P., L.C.S., EDINBURGH; F.P. and S., GLASGOW.

Demonstrator of Obstetrics.

Officers of the Faculty.

DEAN—A. G. FENWICK, M.D.

REGISTRAR—WM. WAUGH, M.D.

TREASURER—W. E. SAUNDERS.

THE MEDICAL DEPARTMENT
—OF—
THE WESTERN UNIVERSITY.

The Ninth Session of this Medical School will open on Tuesday, the first day of October, 1896.

The opening Lecture will be delivered in Victoria Hall, at the hour of 3 o'clock p. m. The regular lectures will commence on the following morning, according to the published programme.

The Faculty of the Medical Department of the Western University has reason to feel proud of the success of its efforts during the past Session.

Since the commencement of its labors, eight years ago, the number of students in attendance has been increasing year by year, until now this school compares favorably, both in numbers in attendance and efficiency in teaching, with the foremost schools on the continent.

The College building is commodious and well arranged, centrally located on the corner of Waterloo and York Sts., convenient to the Hospital and Dispensary, is heated, lighted and ventilated in the most approved manner, and supplied with all the latest improvements. The main building contains two spacious Lecture Halls, Chemical and Histological Laboratories, together with Museum, Free Public Dispensary, Waiting Room for Students, Reading Room, etc.

The Dissecting Room, being in a separate building, is a sanitary improvement that will be appreciated by students, who often find themselves prostrated by spending so many hours in vitiated air.

The Chemical and Histological Laboratories are fitted up in the most modern way, and we can assure the student that he will find every convenience necessary for the prosecution of his studies under the most favorable circumstances.

Intending students are requested to be present at the opening address, so as to lose no portion of the course, for they may rest assured that even the most talented will find four years of close application none too much to prepare for this noble and responsible calling.

Students desirous of graduating at Trinity College, or the University of Toronto, are privileged to do so on presenting their tickets from this College.

The Medical Department of the Western University is now recognized by the Colleges of Great Britain, and its graduates are entitled to all privileges enjoyed by other Canadian Colleges.



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PLAN OF INSTRUCTION.

LECTURES WILL BE BOTH DIDACTIC AND CLINICAL.

Didactic Lectures will be given in the New College buildings by the several Professors in their various departments. Every effort will be made to make each course as thorough and comprehensive as possible.

Lectures for Final Students will be so arranged that their course will be completed in the forenoon of each day, thus leaving the afternoon free for Dispensary, Hospital and Clinical work.

PRINCIPLES AND PRACTICE OF MEDICINE.

PROFESSORS FRASER AND MOORHOUSE.

This course will consist of General Pathology, as governing disease in general, with sufficient Special Pathology to make the matter clearly intelligible to the Student; the Nature and Causes of Disease, the Symptoms and Morbid Changes which arise in the course of Disease; the principles governing the general treatment of Disease, and the means to be used for its prevention; the Classification of Diseases, and the description of the affections of the different Organs and Structures throughout the body.

The Lectures will be illustrated with the most recent plates and models.

Special attention will be paid to diseases prevailing in our own climate.

PRINCIPLES AND PRACTICE OF SURGERY.

PROFESSOR WAUGH.

This Course includes Surgical Pathology, illustrated by specimens and preparations. The different injuries and diseases are fully described, and the various surgical appliances shown. The chief operations will be shown as far as possible on the Cadaver.

OBSTETRICS AND DISEASES OF CHILDREN.

PROFESSOR JONES.

Every student will have ample opportunity for using the Manikin, in order to make himself familiar with the mechanism of Labor, the use of Forceps, Version, etc.

Special attention will be paid to the emergencies of Obstetric practice.

A course of lectures will be given on Diseases of Children. This will be made as practical as possible.

GYNECOLOGY.

PROFESSOR ECCLES.

The aim and object of this course will be to make it as thorough and practical as possible. The student's attention will first be directed to all the anatomical and physiological facts bearing on Gynecological practice. He will then be taught the proper methods of investigating cases and the use of the various instruments required in their diagnosis and treatment.

While all the diseases embraced under this head will be brought before the student, special attention will be given to *those* which are more frequently met in general practice.

Minor and Major Gynecological Surgery, and the use and the application of electricity in treatment of diseases of women, will each receive that attention which their importance at the present day demands.

ANATOMY: DESCRIPTIVE AND SURGICAL.

PROFESSOR W. J. MITCHELL.

The course on Anatomy is taught by lectures illustrated by drawings, casts, and the dissected subject, whilst a beautifully-prepared set of ligaments greatly assists the student in this difficult part of his studies.

During the course on Osteology, students who apply early will be supplied with Specimens from the Museum by the Professor of Anatomy.

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Special attention will be given to Practical Anatomy by the Demonstrator and an efficient staff of assistants. The dissecting room is large and well ventilated, and supplied with every requisite for comfort and convenience.

During the dissecting of each part, the student shall be examined at least three times by the Demonstrator, who, when he is satisfied, will certify to the work done.

PHYSIOLOGY.

PROFESSOR MCCALLUM.

The course in this subject will consist of demonstrations and didactic lectures. The relation of Physiological facts to Practical Medicines and Pathology will receive that attention it merits. Lectures will be illustrated by diagrams, charts and instruments.

GENERAL CHEMISTRY AND CHEMICAL PHYSICS.

PROFESSOR BOWMAN.

In these subjects the lectures will be accompanied by experimental demonstrations. To this end the Chair has been fully equipped with all necessary apparatus. Organic Chemistry will be taught, with special reference to its application to medicine.

PRACTICAL CHEMISTRY.

PROFESSOR W. E. SAUNDERS.

The laboratory of Practical Chemistry is probably second to none in the Dominion in the matter of fittings, no expense having been spared to make the room convenient and useful to the students, each of whom performs for himself every operation of the course, which embraces Inorganic and Organic Chemistry, Toxicology, and Urinary Analysis, and is kept within the limits of that which will be of ultimate practical value, rather than that which would be merely crammed, and then forgotten.

MATERIA MEDICA.

PROFESSOR HODGE.

In this course special attention will be given to the most important Drugs and their preparations.

Specimens of the various Drugs will be shown at each lecture, and thus students will be enabled to familiarize themselves to them.

THERAPEUTICS.

PROFESSOR MEEK.

The Therapeutic action of remedies in disease will have special attention; also the theory and art of prescribing.

MEDICAL JURISPRUDENCE AND TOXICOLOGY.

PROFESSOR A. G. FENWICK.

This course includes: General medical evidence, both oral and documental; death, presumed and real, also their distinguishing signs; death occasioned by wounds, with the evidence from circumstances, circumstantial evidence from posture and position of the body; insanity (special attention and study will be devoted to this important subject); effects of noxious vapors and post mortem appearances; fatal effects produced by lightning, cold, starvation, etc.; offences against chastity; feigned disease; proper modes of procedure at Coroners' inquests. Toxicology—Classification of poisons, their modes of action, treatment, post mortem appearances and chemical tests; diseases resembling poisoning.

MICROSCOPY.

PROFESSOR D. B. FRASER.

Normal and Pathological Histology receive most careful attention. Students are furnished with microscopes and the accessories necessary for the preparation and preservation of microscopic specimens of their own for future reference. The classes will have opportunity of seeing post mortems in the autopsy room, under the direction of the Pathologist.

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SANITARY SCIENCE AND PUBLIC HEALTH.

PROFESSOR JONES.

Lectures on the following subjects will be given : Hereditary influence; causes of deterioration and disease; preventable diseases; food; air—its impurities and their effects upon health; ventilation and warming; water—its impurities; dwellings—public and private, including hospitals; removal of sewage; disinfection; duties of medical officers of health, etc.

BOTANY AND ZOOLOGY.

PROFESSOR JOHN DEARNESS.

The course in Botany is selected with special consideration of the needs of the medical student. Enough of Morphology and classification is taught to qualify for the intelligent use of the common synoptical keys. Particular attention is given to questions of Physiology and Biology. The student is made acquainted from specimens with the native poisons and medicinal plants. Types of bacteria are illustrated by cultures made during term. Free use is made of the microscopes and of specimens—living, exsiccated or preserved in alcohol—to illustrate the lectures practically throughout.

CLINICAL INSTRUCTION.

The London General Hospital during the past two years has been under a Board of Trustees, and during that period it has been enlarged and improved in many ways. The following gentlemen form the Board :—

COL. R. LEWIS, Chairman.

T. H. PURDOM.

JAS. GILMOUR.

HIS WORSHIP MAYOR TAYLOR.

C. F. COMPLIN.

A. O. GRAYDON, Secretary.

J. D. BALFOUR, M. D., Hospital Supt.

London, with suburbs, now contains over 45,000 inhabitants, and is rapidly increasing in size. It is also surrounded by the most densely populated farming community in the Province, so that the number of patients admitted to the Hospital furnishes a large and varied number of cases for Clinical study, which will be conducted in such a manner as to afford each student frequent opportunities of personally examining patients. The London General Hospital contains 104 beds, which are frequently all full, and the Training School in connection with the Hospital secures the best system of nursing. The students will also have the opportunity of visiting the Dispensary (in the school building) daily, and seeing and examining a number of out-door patients. Clinical Clerks and Surgical Dressers will be appointed from among the advanced students, who will take notes of cases and report the same on printed forms supplied for the purpose.

During this course the use is taught also of the Ophthalmoscope, Laryngoscope, Sphygmograph and other instruments of precision used in medical and surgical diagnosis.

According to a regulation of the Medical Council, students are required to attend the practice of a General Hospital for a period of twenty-four months.

The several medical charities of the city also afford material for practical instruction, and the advanced students will have the opportunity of visiting, with the Surgeon in attendance, and assisting at operations, etc. The principal charities are:—The Mount Hope Orphan Asylum, the Protestant Orphan Home, the Convalescent Home, the Old Men's Home, St. Joseph's Hospital, etc.

A free 'bus will convey the Students to the Asylum for the Insane, during the course on Diseases of the Mind.

The London Asylum for the Insane at the present time contains 904 patients, so that the student has every opportunity for receiving instruction on this important subject.

CLINICAL MEDICINE.

PROFESSOR ARNOTT.

The method in this subject consists of questions and answers on each patient examined; a thorough training in physical diagnosis, and the examination of new patients by senior members of the class.

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CLINICAL SURGERY.

PROFESSOR WISHART.

The Lecturer on this branch is now in a position to give students a very complete course on Practical and Operative Surgery.

The course, as heretofore, will, in addition to the ordinary Clinic, include a complete course on diseases of the Urinary Organs, Orthœpoedic Surgery, Minor Surgery, Bandaging, Antiseptic Dressing, etc.

DISEASES OF THE MIND.

PROFESSOR BUCKE.

The course will consist almost entirely of Clinical lectures given in the wards of the Asylum, in the course of which every form of Insanity (as far as practicable) will be brought before the notice of the student. This course is now compulsory.

TIME TABLE.

TIME.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
A. M.	Surgery.	Surgery.	Surgery.	Surgery.	Surgery.	
8 to 9						
	Obstetrics.	Gynecology.	Obstetrics.	Gynecology.	Obstetrics.	
9 to 10	Anatomy.	Anatomy.	Anatomy.	Anatomy.	Anatomy.	
	Medicine.	Medicine.	Medicine.	Medicine.	Medicine.	
10 to 11	Pr. Anatomy.	Pr. Anatomy.	Pr. Anatomy.	Pr. Anatomy.	Pr. Anatomy.	
	Jurisprudence	Jurisprudence	Jurisprudence	San. Science.	Jurisprudence	
11 to 12	Pr. Anatomy.	Pr. Anatomy.	Pr. Anatomy.	Pr. Anatomy.	Pr. Anatomy.	
P. M.	Clinical Sur- gery.	Clinical Medi- cine.	Clinical Sur- gery.	Clinical Medi- cine.	Clinical Sur- gery.	Clinical Medi- cine.
1 to 3					Pf. Chemistry	
3 to 4	Physiology.	Physiology.	Physiology.		Physiology.	
4 to 5	*Mat. Medica and Therapeutics.	Mat. Medica and Therapeutics.	Mat. Medica and Therapeutics.	Mat. Medica and Therapeutics.	Mat. Medica and Therapeutics.	Botany.
5 to 6	Chemistry.	Chemistry.	Chemistry.	Chemistry.	Chemistry.	Zoology.

*Note.—Materia Medica three days a week for the first three months and two days a week the last three months.

MATRICULATION IN MEDICINE.

The subjects are as follows :—

Writing and Dictation. Correct spelling and legible writing are imperative.

Canadian and English History, English Language, including Grammar and Composition, &c.

Arithmetic, Algebra, including Simple Equations.

Geometry, first two books of Euclid.

Latin, Translation and Grammar.

And upon one of the following subjects (of which students are recommended to select either Natural Philosophy or one of the Modern Languages), the candidate having the option of naming the subject upon which he will be examined, viz. :

Greek, French, German, Natural Philosophy, including Mechanics, Hydrostatics and Pneumatics.

The following are the Text-books to be used in this Examination. Where more than one is named, the candidate may select the ONE upon which he will prefer to be examined :—

Latin—Cæsar, *Commentaries on Gallic War*, and two Books ; Cicero, *Manilian Law* ; Virgil, *Aeneid*, First or Second Book.

Greek—Xenophon, *Anabasis*, First Chapter, St. John's Gospel.

French—Voltaire, *Charles XII.*, any one book.

German—Schiller's *Thirty Years' War*, 1st Book.

Natural Philosophy—Stewart's Physics.

This Examination will be held on the second Friday and Saturday in March, and the second Friday and Saturday in October of each year. Applications may be made to the Registrar of the Faculty till the evening of the day before the Examination.

Graduates or Matriculates in any recognized University in Her Majesty's Dominions are not required to pass the Matriculation Examination.

The certificate of having passed the Matriculation Examination recognized by the College of Physicians and Surgeons of Ontario or Quebec is accepted by this University.

N.B.—This examination is recognized by the Medical Council and Colleges of Great Britain, providing the student has a certificate

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of having passed on Natural Philosophy, this subject being compulsory in the Mother Country.

*The following clause on Matriculation is copied from the
Announcement of the College of Physician and
Surgeons of Ontario.*

MATRICULATION.

1. Every one desirous of being registered as a Matriculated Medical Student in the Register of this College, except as hereinafter provided, on and after 1st July, 1888, must present to the Registrar the official certificate of having passed the Second Class Non-Professional Examination—as prescribed for Form II. of the High School course of Study—embracing the following subjects:—

- | | |
|------------------------------------|-----------------------|
| 1. <i>Reading</i> | 9. <i>Algebra.</i> |
| 2. <i>Orthography and Orthæpy.</i> | 10. <i>Geometry.</i> |
| 3. <i>English Grammar.</i> | 12. <i>Physics.</i> |
| 4. <i>Composition.</i> | 13. <i>Chemistry.</i> |
| 5. <i>Literature.</i> | 14. <i>Botany.</i> |
| 6. <i>English History.</i> | 15. <i>Latin.</i> |
| 7. <i>Geography—(Modern).</i> | 21. <i>Drawing</i> |
| 8. <i>Arithmetic.</i> | |

Whereupon he shall be entitled to be so registered upon the payment of twenty dollars, and giving proof of his indentity.

2. Graduates in Arts, or Students having Matriculated in Arts in any University in Her Majesty's Dominions, are not required to pass this Examination, but many register their names with the Registrar of the College upon giving satisfactory evidence of their identity and certificate of qualifications, and upon paying the fee of twenty dollars.

3. Every Medical Student after Matriculating shall be registered in the manner prescribed by the Council, and this will be held to be the preliminary to his medical studies, which will not be considered to begin until after the date of such registration.

REQUIREMENTS FOR THE DEGREE OF DOCTOR IN MEDICINE.

Every candidate for Graduation in Medicine must give sufficient evidence by certificate :

I. That he has passed the Matriculation Examination, or one equivalent thereto, and recognized by this University.

II. That he has been engaged in the study of Medicine over a period of four years, and that he has, during that time, attended lectures extending over at least four Sessions, of six months each, in this or some other recognized University, College, or School of Medicine.

III. That he has attended two courses, of six months each, upon Anatomy, Practical Anatomy, Practice of Medicine, Surgery, Theoretical Chemistry, Midwifery, and Diseases of Women and Children, Materia Medica and Therapeutics, Physiology, Clinical Medicine, Clinical Surgery ; two three-months' or one six-months' course upon Medical Jurisprudence ; one course of twenty-five lectures each on Practical Chemistry and Toxicology ; one course of at least twenty-five practical demonstrations upon Normal and Pathological Histology ; twenty-five lectures on Surgical Anatomy, and one course of twenty lectures each on Sanitary Science and Botany ; one course on Mental Disease.

IV. That he has attended, for at least twenty-four months, the practice of the London General Hospital, or that of some other Hospital recognized by this University, and one Summer Session at this or some other recognized Medical School.

V. That he has attended for six months the practice of a Lying-in Hospital, and had charge of at least six cases of accouchement.

VI. That he has spent at least one Session in attendance upon lectures in this University, and procured tickets for at least the final branches.

VII. That he is of good moral character and of the full age of twenty-one years ; and that he has been engaged in compounding medicines in the office of a duly qualified medical practitioner, or registered druggist, for a period of six months.

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EXAMINATIONS.

The following are the subjects upon which Students are examined at the close of each Session :

FIRST YEAR SESSIONAL EXAMINATION.

Anatomy—Bones, Ligaments, Muscles and Viscera of the Abdomen and Thorax.

Physiology—The Tissues, Blood, Circulation, Respiration and Digestion.

Chemistry—Inorganic Chemistry and Chemical Physics, including Light, Heat, Electricity and Magnetism.

Materia Medica—Preparation, Characters and Adulterations of Drugs.

Practical Anatomy—Bones, Ligaments, Muscles and Viscera.

Botany.

SECOND YEAR PRIMARY PASS EXAMINATION.

Relative Value of Subjects.

Descriptive Anatomy,	-	-	-	-	100
Practical Anatomy,	-	-	-	-	100
Physiology,	-	-	-	-	100
Histology,	-	-	-	-	50
Theoretical Chemistry, Organic and Inorganic,	-	-	-	-	100
Practical Chemistry,	-	-	-	-	40
Toxicology,	-	-	-	-	30
Materia Medica,	-	-	-	-	50

THIRD YEAR EXAMINATION.

Medical Jurisprudence,	-	-	-	-	50
Surgical Anatomy,	-	-	-	-	50
Sanitary Science,	-	-	-	-	20
General Pathology,	-	-	-	-	50
Therapeutics,	-	-	-	-	50
Clinical Medicine	-	-	-	-	100
Clinical Surgery,	-	-	-	-	100

FOURTH YEAR PROFESSIONAL EXAMINATION.

	Relative Value of Subjects.
Theory and Practice of Medicine,	100
Principles and Practice of Surgery,	100
Midwifery and Diseases of Women and Children,	100
Clinical Medicine	100
Clinical Surgery,	100

In passing these examinations, candidates must maintain an average percentage of fifty, and not fall below forty per cent. on any subject.

MEDALS, SCHOLARSHIPS, PRIZES.

A Gold and Silver Medal, known as the University Medals, will be awarded to the students of the graduating class who stand first and second, respectively, for the best examination, written and oral, in both primary and final branches.

In order to compete for these Medals, a student must have attended lectures during one whole winter session at this University and have taken out tickets on the final branches; he must have attained an aggregate of not less than seventy-five per cent. on all the subjects of examination, both primary and final, and have not fallen under fifty per cent. on any one. In competing for these Medals, students have the option of either being examined on all the subjects, or on those of the fourth year only; in the latter case they will receive credit for their standing at the examination of the second and third years already passed.

A Scholarship of the value of \$30 will be awarded to the student who obtains the highest aggregate number of marks on the subjects included in the first year's examination.

A Scholarship of the value of \$50 will be awarded to the student who obtains the highest aggregate number of marks in the second year's examination.

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CERTIFICATES OF HONOR.

Certificates of Honor will be awarded to those students who have made sufficient number of marks in the primary and final examination to merit this distinction.

HOSPITAL ASSISTANT.

The Trustees, for the enouragement of the study of Medicine, have decided to offer the position of Hospital Assistant annually to Students of the Western University, and the Faculty have determined to make the appointment from those of the third year. This situation is tenable for six months, commencing at the close of the winter Session, and entitles the holder to board and residence in the Hospital building, thus allowing him ample opportunity for practical experience in his profession. This will be given to the Student of the third year who obtains the highest aggregate number of marks in the third Sessional examination.

DEMONSTRATOR ASSISTANT.

Two assistants on Practical Anatomy will hereafter be appointed annually by the Faculty, on the recommendation of the Demonstrator.

These appointments are of much practical value, and will be given to advanced Students who have passed the Primary examination in this subject.

CONFERRING OF DEGREES.

The annual Convocation for the conferring of Degrees will be held at the close of each winter Session, when successful candidates will have the Degree of Doctor of Medicine conferred upon them. At the same time the Gold and Silver Medals and the several Prizes and Scholarships will be presented by the Chancellor to Students who succeed in attaining to these honors, and honorable mention will be made of those who have made sufficient marks in the different subjects of examination to entitle them to this distinction.

FEES FOR THE COURSE.

Anatomy, Surgery, Practice of Medicines, Materia Medica and Therapeutics, Physiology and Theoretical Chemistry, \$12.00 each; Practical Anatomy, Clinical Medicine, Clinical Surgery, \$10.00 each; Practical Chemistry, Obstetrics, Medical Jurisprudence, Toxicology, Pathology, Gynecology, \$6.00 each; Histology, Sanitary Science, Botany, and Mental Disease, \$5.00 each.

Registration Fee, \$2.00.

Matriculation Fee, \$5.00.

Graduation Fee, Doctor of Medicine (M.D.), \$25.00.

All students, after having attended two full courses of lectures in any branch, shall be entitled, without further charge, to a perpetual ticket for that branch, except the following: Practical Anatomy, Pathology, Histology and Practical Chemistry, every course of which attended must be paid for.

All fees to be paid strictly in advance.

The certified ticket of other recognized Medical Schools will be accepted by this University.

Dental and other casual Students can attend any course or courses of lectures in this institution on payment of the usual fees for the same, without Matriculation or Registration.

Material for dissection will be supplied at less than original cost.

Fee for a perpetual ticket to the London General Hospital, \$20.00. Fee for six months, \$6.00.

Board and lodging can be obtained at reasonable rates convenient to the College or Hospital, as the student desires.

The fees for the course are payable to the Treasurer, who will issue all Lecture Tickets for the Session.

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Brunto

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Diagn

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organs

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Wood

J

Patho

J

J

GENERAL TEXT-BOOKS.

Anatomy—Gray, Quain.

Practical Anatomy—Heath, Ellis, Holden, Weisse.

Physiology—Foster, Landois and Sterling, Yeo, Kirke.

Chemistry—Attfeld, Roscoe, Bartley, Witthaus, Balfour Stewart's
Physics, Gages' Physics.

Therapeutics—Maisch, Garrod, Pereira by Wood, United States
Dispensatory, Stille, Bartholow, Farquharson, Ringer, T. Lander
Brunton, Biddle, Bruce.

Surgery—Erichsen, Holmes, Bryant, Hamilton, Ashurst, Treves.

Medicine—Fagge, Bristowe, Flint, Loomis, Bartholow; and on
Diagnosis—Da Costa, Graham Brown, Finlayson, Loomis.

Gynecology—Thorburn, MacNaughton Jones, Lewers, Goodell,
Thomas, Doran (Gynecological operations), Savage (female pelvic
organs).

Midwifery—Playfair, Leishman, Barnes, Lusk.

Medical Jurisprudence and Toxicology—Taylor, Husband,
Woodman and Tidy.

Pathology—Coats, Ziegler, Payne, Green, Pepper (Surgical
Pathology).

Sanitary Science—Wilson, Parke.

Materia Medica—Bruce, Whitla.

Dictionary—Gould.

REGULATIONS FOR STUDENTS.

To be strictly observed.

1. Students are expected to conduct themselves in an orderly manner in the Lecture-rooms, or any part of the College buildings, *at all times*, not only during Lectures, but also when neither Lectures nor Demonstrations are going on.

2. Damage done to College property must in every case be made good by the party who does the damage.

3. In the case of noisy or other disorderly conduct, any Student may, at the discretion of the Professor, be requested to leave the class-room. Persistence in any offence against discipline, after admonition by the Professor, shall be reported to the Dean of the Faculty. The Dean may, at his discretion, reprimand the Student, or refer the matter to the Faculty at its next meeting, and may, in the interval, suspend from classes. Such conduct disqualifies a Student from competing for medals, scholarships or honors.

4. Absence from any number of lectures can only be excused by necessity, or duty, of which proofs must be given to the Faculty when called for. The number of times of absence, from necessity or duty, that shall disqualify for the keeping of a session, shall in each case be determined by the Faculty.

5. When Students are brought before the Faculty, under the above rules, the Faculty may reprimand, impose fines, disqualify from competing for prizes and honors, suspend from Classes, or expel from the College.

6. Any complaints made by Students must be given in writing to the Registrar, who will lay the same promptly before the Faculty.

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LIST OF STUDENTS.

Ardiel, L. M.	Murray, W. O. S.
Banting, W. S. T.	McBlain, T. J.
Baker, W. H.	McCrimmon, F.
Boadway, J.	McEwen, J. A.
Burkholder, J. F.	McEwen, W. H.
Cook, G. H.	McGinnis, J.
Copeland, E. M.	McGregor, J. A.
Cowan, T. J.	McIntyre, H.
Fraleigh, A.	McDonald, H. F.
Ferguson, R.	McDonald, W. S.
Gibson, J. A.	McIntosh, J.
Gowan, T. J.	McLaughlin, T. P.
Gubbens, R. M.	McNeil, D. G.
Guillemont, F.	Nixon, J. W.
Guest, F.	Noyes, F.
Hanson, Jas.	Parker, T. J.
Halliday, Jas.	Patrick, O. M.
Hall, F.	Pogue, G. R.
Hayes, A. N.	Sanderson, W. H.
Hobbs, A. T.	Shirley, C.
Hoag, F.	Shoebottom, J. H. H.
Hooper, S. E.	Sharp, M.
Hughes, T. A. M.	Shaw, R. W.
Kennedy, J. P.	Smith, D.
Leininger, J. W.	Stenton, D. K.
Leys, F.	Weiner, J.
Macklin, E.	Wilson, J. T.
Macklin, H. P.	Wilson, H.
	Wood, P. B.
	Wood, W. H.

Students who have passed the First Year Examination.

McDonald, W. S.	McIntosh, J.
Wilson, J. T.	Guillemont, F.
Pogue, G. R.	Sanderson, H.
Wood, P. B.	Hoag, F.
Nixon, J. W.	Leys, F.

Students who have passed the Second Year Examination.

McDonald, H. F.	Parker, J.
Gowan, T. J.	Patrick, O. M.
McEwen, W. H.	McGregor, J.
McBlain, T. J.	Cook, G.
Shaw, R. W.	Halliday, J.
Frleigh, A.	Banting, W. T.

Hall, F.

Students who have passed the Third Year Examination.

Kennedy, J. P.	Sharp, M.
Ferguson, R.	Leininger, J. W.
McNeil, D. G.	Murray, W. O.
McLaughlin, T. P.	Ardiel, L. M.
McCrimmon, F.	Wilson, H.

Students who have passed the Fourth Year Examination.

Hayes, A. N.	Gibson, J. A.
Copeland, E. M.	Ferguson, R.
Hobbs, A. T.	McEwen, J. A.
Stenton, D. K.	Guest, F.
Smith, D.	Shoebottom, J. J.
Macklin, E.	Hooper, S. E.

Baker, W. H.

First Year Scholarship.

W. S. McDonald.

Honor Certificates.

J. T. Wilson.	G. R. Pogue.
P. B. Wood.	

Second Year Scholarship.

H. F. McDonald.

Honor Certificates.

T. J. Gowan.	T. J. McBlain.
W. H. McEwen.	R. W. Shaw.

Third Year Scholarship.

J. P. Kennedy.

Honor Certificates.

R. Ferguson.
D. G. McNeil.

T. P. McLaughlin.
F. McCrimmon.

Fourth Year.

Gold Medalist.....A. N. Hayes. Silver MedalistE. M. Copeland.

Honor Certificates.

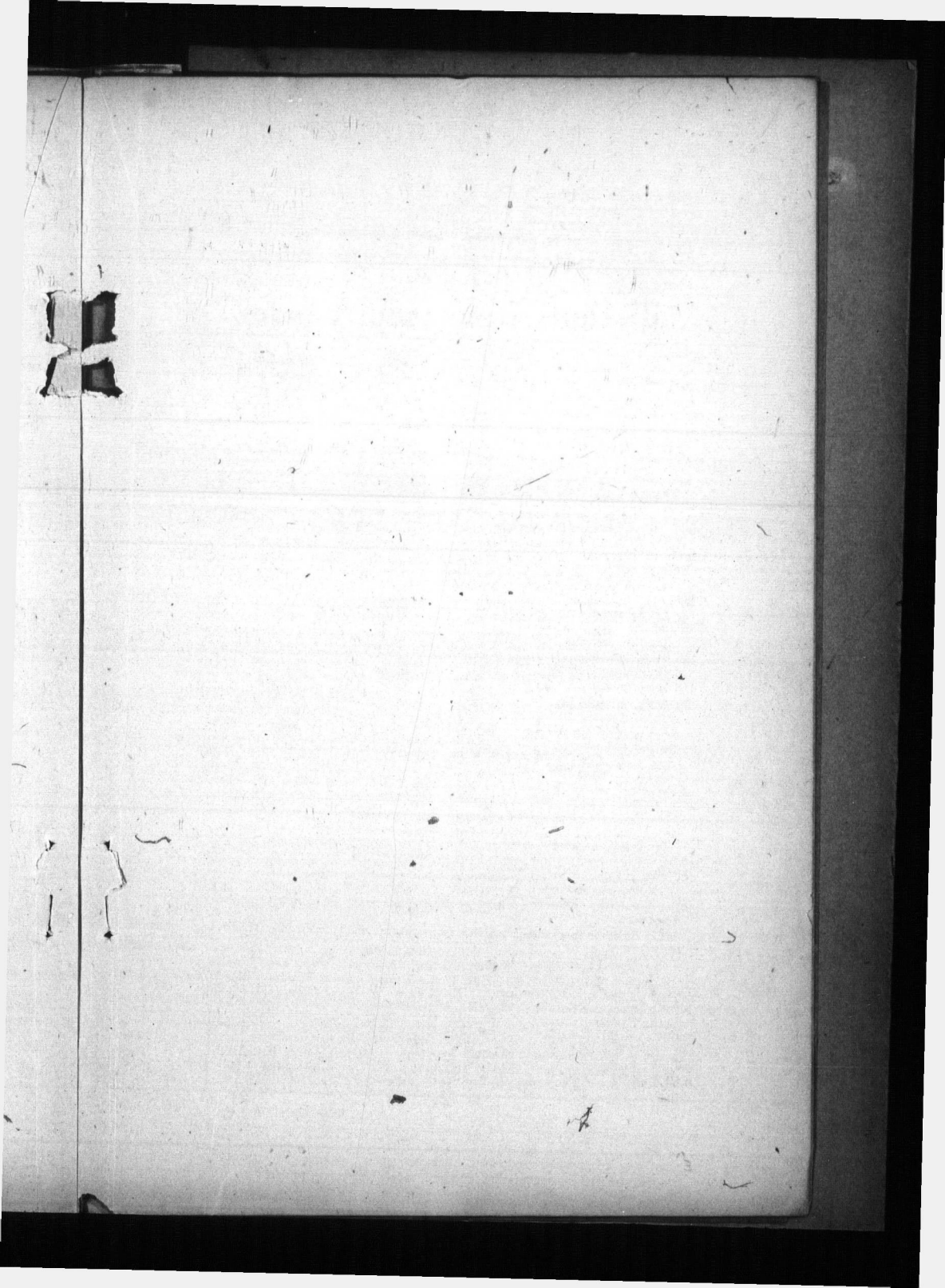
A. T. Hobbs.
D. K. Stenton.
D. Smith.

E. Macklin.
J. A. Gibson.
R. Ferguson.

Graduates.

Baker, W. H.....	1890	Kennedy, J. D.....	1888
Balfour, J. D.....	1887	Logie, Wm.....	1886
Bayly, B.....	1889	Macklin, E.....	1890
Brown, E. A.....	1886	*Mitchell, W. J.....	1885
*Cline, C. A.....	1889	*McCallum, H. A.....	1886
Cooper, R. M.....	1889	McDonald, Jas.....	1888
Copeland, E. M.....	1890	McDonald, C. D.....	1887
Ferguson, R.....	1890	McEwen, J. A.....	1890
Fraser, J. W.....	1886	McKellar, A.....	1888
Fraser, S. M.....	1889	McLachlin, J. Y.....	1888
Gibson, R.....	1886	McRitchie, T. L.....	1889
Guest, F.....	1890	Patrick, T. A.....	1888
Haggart, J.....	1887	Proudfoot, J.....	1888
*Hayes, A. N.....	1890	Roche, W.....	1883
Hobbs, A. T.....	1890	Shoebottom, J. J.....	1890
Honner, R. H.....	1889	Smith, D.....	1890
Hooper, S. E.....	1890	*Smith, R. S.....	1887
Hotson, A.....	1889	Stenton, D. K.....	1890
*Hotson, J. M.....	1888	Weekes, W. J.....	1886
Hyndman, H. K.....	1886	Williams, H. T. H.....	1888
Hyttenrauch, L. J.....	1888	Wilson, G. H.....	1886

*Gold Medalist.



Western University, London.

SESSION 1890.

BOTANY.

First Year.

EXAMINER—J. DEARNESS.

- (1) Make, per the blank schedule supplied herewith, a description of the plant (and flower) submitted.
- (2) Give a circumstantial account of the development of the starch grain from its formation in the leaf of the potato to its deposition in the tuber.—Contrast the process with the production of morphia in the poppy.
- (3) Write notes on the movement of the sap in the plant under the headings (a) evaporation, (b) imbibition, (c) root pressure.
- (4) Show how the balance of nature is maintained by green plants as against animals and fungal plants.
- (5) Describe a pure culture of a microbe; define ptomaine; and briefly sketch the life-history of bacillus anthracis.
- (6) Identify the plants upon the table, adding notes as to their properties, and write descriptive notes (with drawings) of the tissues and other specimens under the microscopes.

MATERIA MEDICA.

Second Year.

EXAMINER—DR. HODGE.

- (1) Digitalis—source, composition, dose, preparation, and their doses. Action in (a) small doses, (b) moderate doses, (c) large doses. When diuretic action of the drug is required, which preparation would you give? Why?
- (2) What is Eserine? Picrotoxin? Cocaine? Hyoscyne? Jalapin? Elaterine? Sparteine? Terebene? Acidum Hydrocyanicum? Nitroglycerinum? Give dose of each.
- (3) Belladonna—source, composition, action, and dose of the chief Alkaloid.
- (4) Give Pharmacopoeial name, composition, and (when used internally) dose of each of the following: Basilicon Ointment; Grey Powder; Blue Pill; Friar's Balsam; Scott's Ointment; Black Wash; Plummer's Pills; Citrine Ointment; Donovan's Solution; Fowler's Solution.
- (5) Jaborendi—source, composition, dose of chief Alkaloid. Describe what follows a medicinal dose of the Alkaloid, hypodermically administered.
- (6) Given the following Drugs: Liquor Potassæ; Tinctured Aurant; Liquor Strychninæ and Infusum Calumbæ. Write a prescription, using the metric system. If you omit any drug from prescription, give your reason for so doing.

PHYSIOLOGY.

Second Year.

EXAMINER—DR. MCCALLUM.

- (1) Describe the absorption of fat in the intestinal canal. The absorption of Peptones.
- (2) Describe the histology of a Malpighian tuft. Give experiments showing its function.
- (3) (a) Describe four nerve terminations. (b) Show by diagram the motor and sensory paths in the spinal cord, and indicate their nutritive centres.
- (4) What happens when (a) one vagus is severed in the neck? (b) When both vagi?
- (5) Describe briefly the experiments you have seen with a nerve-muscle preparation.

THEORETICAL CHEMISTRY.

Second Year.

EXAMINER—JAS. H. BOWMAN.

- (1) (a) How may Arsenic be prepared from its ores? (b) Give the properties and composition of White Arsenic of commerce.
- (2) Describe the instrument by which to determine (a) Intensity and quantity of Heat. (b) Intensity and quantity of Electricity.
- (3) Give the methods of preparation and characters of (a) two Mercurous Salts; (b) two Mercuric Salts.
- (4) Give full description, with methods of preparation, of (a) Aluminum, (b) Sodium, (c) Copper, (d) Mercury.
- (5) Show by equation the action of Sulphuric Acid on (a) Sodium Hydrate, (b) Calcium Carbonate, (c) Iron, (d) Copper, (e) Platinum, (f) Ferric Hydrate.
- (6) (a) What is meant by Triatomic Alcohol? (b) Give description and method of preparation of one of them.
- (7) Write formulæ for (a) Ethyl Alcohol, (b) Aether, (c) Trimethylamine, (d) Urea, (e) Formic Acid.

Answer any six.

ANATOMY.

Second Year.

EXAMINER—DR. JACKSON.

- (1) Name the structures attached to the Coracoid process of the Scapula, and describe one of the muscles named.
- (2) Give the course and relations of the Axillary Artery, and name its branches.
- (3) Give the origin, course and distribution of the Musculo-Spiral Nerve.
- (4) Describe the Lateral Sinus, and the third Ventricle of the Brain.
- (5) Describe the Duodenum, giving the relations, arterial and nerve supply.

PRACTICAL CHEMISTRY.

Second Year.

EXAMINER—W. E. SAUNDERS.

- (1) In a mixture of Salicin with Quinidia, how would you (a) detect the Salicin? (b) Determine the presence of Quinidia (distinguishing it from Quinia).
- (2) An unknown solution gives a white precipitate with Hydric Chloride, insoluble in Ammonia, soluble in hot water. It also gives, when mixed with Hydrate Sulphur and Copper, red fumes. What salt is contained in the solution?
- (3) Give two methods for the detection of sugar in Urine. What chemical difference is there in the precipitate?
- (4) What is the theoretical difference between Ferrous and Ferric Salts? Give three tests for distinguishing them, with reactions.
- (5) In preparing Ferric Hydrate as an antidote to Arsenic, if Tincture of Iron contain 10% of Ferric Chloride, and Liquor Potassa 1-16th of Potassium Hydrate, how much of the Liquor would it be necessary to add to one ounce of the Tincture to produce complete precipitation?
- (6) Determine the base and acidulous radical in the samples A and B.

THERAPEUTICS.

Third Year.

EXAMINER—H. MEEK, M.D.

- (1) OPIUM.—(a) Its physiological effects in full medicinal doses. (b) Difference in effect on circulation of full and small doses. (c) Action in acute Peritonitis.
- (2) ARSENIC.—(a) Physiological effect in small medicinal doses. (b) In what diseases of gastro-intestinal tract is it indicated, and how would you administer it in such?
- (3) CEREBRAL AFFECTIONS.—Indications for Bromides? Also for applying cold to head?
- (4) PUERPERAL ECLAMPSIA.—Mention most important remedies useful for the convulsions, and *modus operandi* of each.
- (5) TYPHOID FEVER.—Indications for Alcoholic Stimulants, and how should they be administered in this disease?

MEDICAL AND SURGICAL ANATOMY.

EXAMINER—DR. WISHART.

- (1) Give the injury to surrounding parts common to all dislocations of the hip.
- (2) Explain how the deformity is produced or maintained in fracture of the surgical neck of the Humerus.
- (3) Name in order the structures found behind the first portion of the Sternum.

MEDICAL JURISPRUDENCE.

Third Year.

EXAMINER—DR. FENWICK.

(1) DROWNING.—In drowning, of what do the parties die? Describe the *post mortem* appearance, external and internal. Give the modes for resuscitating persons found drowned. Describe the Sylvester plan, as well as the Marshall-Hall plan.

(2) INFANTICIDE.—What do you understand or mean by a child born alive? What is the Hydrostatic test, and how would you manipulate it? What other proof would you look for, evidence that the child had lived?

(3) INSANITY.—(1st) Under what headings is Insanity divided? (2nd) What are the differences between Idiocy, Cretinism, and Imbecility? (3rd) Mania—What are the sub-divisions under this heading? (4th) Describe Puerperal Mania, and its peculiarities.

(4) COLD.—State the effect of extreme cold on the system; give symptoms and treatment. In case of death from cold, what atmospheric condition accelerates death?

SANITARY SCIENCE.

EXAMINER—G. P. JONES, M.B.

(1) Describe the construction of a Drain Sewer for a city, and the best methods of ventilation.

(2) Classify the impurities of water, and give a short description of the effects of each mineral impurity.

(3) What is the natural tendency of mental and moral qualities in heredity, and what intensifies them?

(4) What trades render the atmosphere impure? Mention the resultant diseases.

CLINICAL MEDICINE.

Fourth Year.

EXAMINER—DR. ARNOTT.

(1) Diagnose and treat a case of Chronic Phthisis.

(2) Diagnose and treat a case of Aortic regurgitation.

(3) Mention various causes of Ascites. Give tests, and differential diagnosis.

(4) Give the differential diagnosis of the tremor of paralysis agitans.

(5) John Jones, aged 52, complains of what he calls chronic biliousness (nausea, vomiting, loss of appetite, etc.), shortness of breath on exertion, rapidly-failing sight of right eye, occasional paroxysms at night of what he calls Asthma, followed by an increase of an already exaggerated flow of pale urine of low sp. gr.; pulse is full both in systole and diastole, and is incompressible.

What is your diagnosis? What other physical signs and symptoms would you expect to find? And how would you treat the patient?

SURGERY.

Fourth Year.

EXAMINER—DR. WAUGH.

- (1) Give the symptoms, differential diagnosis and treatment of a concussion and compression of the Brain.
- (2) How would you treat a case of penetrating wound of the abdomen, the viscera protruding and wounded?
- (3) Give signs and treatment of a fracture of the lower extremity of the radius near the wrist.
- (4) Give the differential diagnosis and treatment of Hydrocele, Haematocoele, and Varicocele.
- (5) Describe Symes' amputation at the ankle joint.

PRACTICE OF MEDICINE.

Fourth Year.

EXAMINERS—DRS. FRASER AND MOORHOUSE.

- (1) Give the pathology, etiology and treatment of Rachitis.
- (2) Give the forms, etiology and treatment of Chronic Pharyngitis.
- (3) Give the symptoms of a case of Functional Dyspepsia, with diagnosis.
- (4) Mention the diseases of the Brain which are due to local lesions of the circulation; mention, also, the abnormal conditions of the circulation which may produce brain lesions.
- (5) Describe how Pulmonary Collapse may be induced.

CLINICAL SURGERY.

Fourth Year.

EXAMINER—DR. WISHART.

- (1) A man aged 25 falls astride of a rail. One hour afterward you find him with a swelling in the perineum, and making urgent but ineffectual attempts at micturition. Give diagnosis, prognosis, and treatment.
- (2) Give prognosis and treatment in the following affections: Empyema in a patient of 14; oblique, reduceable, inguinal Hernia in a patient of 40; fracture of the Clavicle at the junction of the outer and middle third in an adult.
- (3) Give the differential diagnosis of the more common enlargements in the Popliteal space.
- (4) Differentiate impacted fracture of the neck of the Femur, and dislocation into the Sciatic notch; and give treatment of the first injury.

