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UNIVERSITY OF
CAMBRIDGE

NOTICES

Calendar

14 December, *Wednesday*. Last ordinary number of the *Reporter* in the Michaelmas Term.

19 December, *Monday*. Michaelmas Term ends.

20 December, *Tuesday*. Discussion at 2 p.m. in the Senate-House (see below).

25 December, *Sunday*. Christmas Day. Scarlet Day.

5 January, *Thursday*. Lent Term begins.

11 January, *Wednesday*. First ordinary number of the *Reporter* in the Lent Term.

17 January, *Tuesday*. Full Term begins.

Discussion on Tuesday, 20 December 2016

The Vice-Chancellor invites those qualified under the regulations for Discussions (*Statutes and Ordinances*, p. 103) to attend a Discussion in the Senate-House on Tuesday, 20 December 2016, at 2 p.m. for the discussion of:

1. Report of the General Board, dated 30 November 2016, on the rescinding of the Medical and Veterinary Sciences Tripos and the introduction of two new Triposes, the Medical Sciences Tripos and the Veterinary Sciences Tripos (p. 189).

Notice of benefactions

The Vice-Chancellor gives notice that he has accepted with gratitude the following benefactions, of which both the capital and the income may be used:

- (i) a benefaction of £5m from Winton Philanthropies, payable over three years, to support a Winton Centre for Risk and Evidence Communication within the Department of Pure Mathematics and Mathematical Statistics for up to five years;
- (ii) a benefaction of £1m from Winton Philanthropies, which will be added to the Winton Fund for the Physics of Sustainability (*Statutes and Ordinances*, p. 990) to support an exchange programme between researchers forming part of the University's Winton Programme for the Physics of Sustainability and the Kavli Energy NanoScience Institute at the University of California, Berkeley.

VACANCIES, APPOINTMENTS, ETC.

Vacancies in the University

A full list of current vacancies can be found at <http://www.jobs.cam.ac.uk/>.

Finance Manager to the School of the Biological Sciences / Senior Assistant Treasurer in the Finance Division of the University offices; salary: £52,793–£55,998; closing date: 16 December 2016; further details: <http://www.jobs.cam.ac.uk/job/12292>; quote reference: AG10886

Ernest Oppenheimer Early Career Research Fellowship in the School of the Physical Sciences; tenure: three years in the first instance; stipend: £29,301–£38,183; a contribution may be made towards travel and removal expenses, and up to £15,000 a year for research expenses; closing date: 17 January 2017; further details: <http://www.jobs.cam.ac.uk/job/12159/>; quote reference: LA10769

The University values diversity and is committed to equality of opportunity.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

NOTICES BY FACULTY BOARDS, ETC.**Examination in Scientific Computing for the M.Phil. Degree, 2016–17: Amendment**

The Degree Committee for the Faculty of Physics and Chemistry gives notice of an amendment to the Notice published on 8 June 2016 (*Reporter*, 6429, 2015–16, p. 627).

The modules available to candidates for the examination in Scientific Computing for the degree of Master of Philosophy in 2016–17 are as follows:

Paper 1:	Fundamentals in numerical analysis
Paper 2:	Numerical integration and ordinary differential equations
Paper 3:	Numerical differentiation and partial differential equations
Paper 4:	Linear systems
Paper 5:	Electronic structure
Paper 6:	Atomistic modelling of materials
Paper 7:	Machine learning

Candidates should choose a minimum of three papers.

Papers 1, 2, 3, 4, 6, and 7 will be examined by a two-hour written examination consisting of three questions, of which candidates will be required to answer two.

Paper 5 will be examined by a two-hour written examination consisting of four questions.

At the discretion of the Course Director, students may also be able to choose options available under other M.Phil. Degrees offered by the Departments of the Schools of the Biological Sciences, the Physical Sciences, and Technology.

Examination in Physical Sciences (Nanoscience and Nanotechnology) for the M.Res. Degree, 2016–17: Amendment

The Degree Committee for the Faculty of Physics and Chemistry gives notice of an amendment to the Notice published on 8 June 2016 (*Reporter*, 6429, 2015–16, p. 627).

The modules available to candidates for the examination in Physical Sciences (Nanoscience and Nanotechnology) for the degree of Master of Research in 2016–17 are as follows:

Core modules

NE.01	Characterization techniques	Written examination
NE.04	Nanofabrication techniques	Written examination
NE.05	Nanomaterials	Written examination
NE.07	Physics at the nanometre-scale	Written examination
NE.06	Nanochemistry	Written examination
NE.08	Bionanotechnology	Written examination
NE.11	Nano self assembly	Written examination
	Science communication in media, business, and research	Coursework
	Societal and ethical dimensions of micro and nanotechnology	Coursework
	Nurturing and managing innovation in science	Coursework
Practicals	Practical training course	Coursework
Projects	Mini-project I (up to 3,000 words) plus Mini-project II (up to 3,000 words) plus Midi-project (up to 10,000 words)	Written reports, feedback from Supervisors
Proposal	Formulation and defence of a Ph.D. project proposal	Written report, oral presentation, oral examination

Students will be examined on all core modules. The taught modules (NE.0x) are taught in the Michaelmas and Lent Terms and will be followed by formal examinations in the Easter Term.

All modules assessed by examination will be examined in two three-hour examinations.

FORM AND CONDUCT OF EXAMINATIONS

Notices by Faculty Boards, or other bodies concerned, of changes to the form and conduct of certain examinations to be held in 2017, by comparison with those examinations in 2016, are published below. Complete details of the form and conduct of all examinations are available from the Faculties or Departments concerned.

Economics Tripos, 2016–17

The Faculty Board of Economics gives notice that, with effect from the examinations to be held in 2017, the form of the examinations for the following papers for the Economics Tripos will be amended as outlined below.

PART IIA

Paper 3. Theory and practice of econometrics I

This paper consists of seven questions with three sub-parts for each question, requiring candidates to answer four questions (previously the paper consisted of two sections, with Section A requiring candidates to answer four out of seven questions, and Section B, two out of three questions). Each question carries equal weight. The duration of the examination will be of two hours duration (previously three hours).

Paper 4. International trade and development

This paper consists of six questions (previously seven), requiring candidates to answer four questions. Each question carries equal weight.

Paper 8. History and philosophy of economics

This is a new paper for 2017. It will be a sectioned paper, with one section on History of Economics and one section on Philosophy of Economics. There will be six questions set in each section and candidates are required to answer a total of three questions, with at least one question from each section. Each question carries equal weight.

PART IIB

Paper 5. Political economics

This is a new paper consisting of eight questions, requiring candidates to answer four. Each question carries equal weight.

Paper 8. Development economics

This paper consists of six (previously seven) questions, requiring candidates to answer four questions. Each question carries equal weight.

Paper 6. Banking and finance

This is a sectioned paper with four sections (previously two), one section for each course. Each section will contain two questions. Candidates will be required to answer a total of four questions (previously six), with one question from each section. Each section carries equal weight.

The form and conduct of each paper in the Economics Tripos can be found online at: <http://www.econ.cam.ac.uk/intranet/info/FormandConduct-ugrad.pdf>.

Examination for the degree of Master of Business Administration, Lent Term 2017

The Faculty Board of Business and Management gives notice that in the Lent Term 2017 of academical year 2016–17 the subjects for examination for the M.B.A. Degree will be as listed below. The method of examination is shown for each subject.

4. (a) One-year course

6. (a) Compulsory modules

Lent Term 2017:

MBA10.	Strategy	Examination (1.5 hours, 70%); group assignment (2,500 words, 30%).
MBA11.	Marketing	Examination (1.5 hours, 70%); group assignment (2,500 words, 30%).
MBA16.	Cost management and control	Individual assignment (1,500 words, 50%); group assignment (1,500 words, 50%).
MBA33.	Management praxis II	Individual assignment (3,000 words, 100%).
MBA34.	Global consulting project	Group assignment (3,500 words, 100%).
MBA116.	Digital business	Individual assignment (3,000 words, 100%).
MBA12.	Corporate governance and ethics	Individual assignment (3,000 words, 100%).

Easter Term 2017:

MBA15.	Operations management	Assessment to be announced by the end of Lent Term.
MBA117.	Global business environment	Individual assignment (3,000 words, 80%); class participation (20%).
MBA108.	Business and society	Assessment to be announced by the end of Lent Term.
MBA54.	Macroeconomics	Assessment to be announced by the end of Lent Term.
MBA36.	Summer activity	Assessment to be announced by the end of Lent Term.
MBA35.	Concentration (students take one of eight subjects offered)	Assessment and subject areas to be announced by the end of Lent Term.
MBA35A.	Concentration: cultural arts and media management	Assessment to be announced by the end of Lent Term.
MBA35B.	Concentration: energy and environment	Assessment to be announced by the end of Lent Term.
MBA35C.	Concentration: entrepreneurship	Assessment to be announced by the end of Lent Term.
MBA35D.	Concentration: finance	Assessment to be announced by the end of Lent Term.
MBA35E.	Concentration: global business	Assessment to be announced by the end of Lent Term.
MBA35F.	Concentration: health strategies	Assessment to be announced by the end of Lent Term.
MBA35G.	Concentration: social innovation	Assessment to be announced by the end of Lent Term.
MBA35H.	Concentration: strategy and marketing consulting	Assessment to be announced by the end of Lent Term.

6. (b) Elective modules**Lent Term 2017:**

MBA70.	Cases in corporate finance I	Individual in-class test (2 hours, 30%); group assignment 1 (1,500 words, 50%); group assignment 2 (1,000 words, 20%).
MBA40.	Creative arts and media management	Group assignment (3,000 words, 100%).
MBA120.	Creativity workshop	Group presentation (15 mins, deck of ten slides, 80%); individual assignment (1,000 words, 20%).
MBA83.	Behavioural finance	Individual in-class quiz (40 mins, 40%); individual in-class test (2.5 hours, 60%).
MBA79.	Digital marketing	Individual assignment (3,000 words, 50%); group presentation (20 mins, deck of 15 slides, 50%).
MBA41.	Energy and emissions markets and policies	Individual presentation (15 mins, 25%); individual assignment (2,000 words, 75%).
MBA77.	Financial management for start-ups	Individual assignment (2,000 words, 50%); group assignment (2,000 words, 50%).
MBA111.	How to think strategically – an exercise in game theory	Individual assignment (1,200 words, 50%); group assignment (2,000 words, 50%).
MBA85.	Introduction to options, futures, and other derivatives	Individual in-class test (2 hours, 100%).
MBA81.	Leading effective projects	Individual assignment (3,000 words, 80%); individual class participation (20%).
MBA52.	Leading and managing social enterprise	Individual assignment (1,500 words, 50%); group assignment (15-min. presentation and 1,500- word write-up, 50%).
MBA110.	Managing big data analysis	Individual assignment (3,000 words, 100%).
MBA14.	Managing innovation strategically	Individual assignment (2,000 words, 80%); individual class participation (20%).
MBA96.	Marketing and innovation in emerging economies	Group presentation (15 minutes, 30%); individual assignment (1,000 words, 70%).
MBA58.	New venture finance	Individual assignment (1,500 words, 30%); group assignment (3,000 words, 50%); group presentation (15 mins, deck of 20 slides, 20%).
MBA27.	Philosophy of business	Individual assignment (3,000 words, 100%).
MBA103.	Risk management and strategic planning	Individual assignment (2,000 words, 45%); group assignment (15 mins, 40%); class participation (15%).

MBA22.	Strategic performance management	Individual assignment (2,000 words, 25%); group presentation (20 mins, 75%).
MBA114.	Sustainable business	Individual assignment (2,000 words and deck of 15 slides, 100%).
MFIN16.	Topics in investment management (open to M.B.A.)	Group assignment (max. 3,000 words, 50%); in-class test (1.5 hours, 50%).

4. (c) Executive M.B.A. course

2015–17 class

6. (a) Compulsory modules

Lent Term 2017:

EMBA14.	Corporate governance and ethics	Individual assignment (100%).
EMBA4.	Management praxis (this course runs throughout the programme)	Individual assignment (100%).
EMBA17.	Leadership in action (this course runs throughout the programme)	Attendance only.
EMBA19.	Personal and professional development (this course runs throughout the programme)	Attendance only.

(b) Elective modules

Lent Term 2017:

EMBA24.	Fast strategy, intrapreneurship, and business instinct	Individual assignment (100%).
EMBA26.	Philosophy of business	Individual assignment (100%).
EMBA34.	Innovation management: the secret to growth	Individual assignment (100%).
EMBA39.	Strategic change and renewal	Individual assignment (100%).
EMBA40.	Project finance: innovative techniques in valuing and raising financing for large scale projects	Individual assignment (100%).
EMBA42.	Understanding consumers: using psychology to build brands and increase profits	Individual assignment (100%).
EMBA44.	Entrepreneurship	Individual assignment (100%).
EMBA45.	From the savannah to the boardroom: the evolutionary roots of decisions and leadership	Individual assignment (100%).
EMBA50.	Beyond calls to action: strategies and tools for managing environmental sustainability	Individual assignment (100%).
EMBA51.	Doing good well: leading social innovation for local and global impact	Individual assignment (100%).
EMBA52.	Fast expanding markets and business decisions	Individual assignment (100%).
EMBA53.	How to think strategically	Individual assignment (100%).
EMBA54.	Entrepreneurial finance	Individual assignment (100%).
EMBA55.	Leading effective projects: a managerial perspective	Individual assignment (100%).
EMBA56.	Managing Big Data analysis	Individual assignment (100%).
EMBA57.	Strategies for building and sustaining a customer aligned organization	Individual assignment (100%).
EMBA58.	Digital business	Individual assignment (100%).
EMBA59.	Long term investing	Individual assignment (100%).

2016–18 class**6. (a) Compulsory modules****Lent Term 2017:**

EMBA6.	Organizational behaviour	Individual assignment (100%).
EMBA7.	Operations management	Individual assignment (100%).
EMBA8.	International business studies	Group assignment (100%).
EMBA17.	Leadership in action (this course runs throughout the programme)	Attendance only.
EMBA19.	Personal and professional development (this course runs throughout the programme)	Attendance only.

6. (b) Elective modules**Lent Term 2017: None****Examination for the degree of Master of Finance, Lent Term 2017**

The Faculty Board of Business and Management gives notice that, in the Lent Term 2017, the subjects for examination for the degree of Master of Finance will be as listed below. The method of examination is shown for each subject.

No written papers offered in Lent Term.**Group 1 – core subjects**

MFIN39.	Fundamentals of credit	In-class test (2 hours, 60%); coursework, individual assignment (10%); case study (30%).
MFIN3.	Econometrics	Mid-term test (2 hours, 40%); final test (2 hours, 60%).
MFIN5.	Management lecture series	Seminar, assessed by attendance.
MFIN22.	Management practice	Seminar, assessed by attendance.
MFIN23.	City speaker series	Seminar, assessed by attendance.

Group 2 – specialist subjects

MFIN14.	Fixed income analysis (open to M.Phil. in finance)	Individual mid-term in-class quiz (1 hour, 40%); in-class final test (1.5 hours, 60%).
MFIN4.	Further derivatives	In-class test (1.5 hours, 100%).
MFIN16.	Topics in investment management (open to M.B.A.)	Group assignment (max. 3,000 words, 50%); in-class test (1.5 hours, 50%).
MFIN19.	Private equity	Four individual assignments (max. 2,500 words each, 40% in total); two group projects (max. 2,500 words each, 30%); individual in-class quiz (1 hour, 30%).
MFIN34.	Advanced corporate finance	Case write-ups (max. 2,500 words, 30%); group project (max. 2,500 words, 40%); in-class test (3 hours, 30%).
MFIN27.	Mergers and acquisitions	Two individual assignments (max. 2,500 words each, 40%); group assignment (max. 2,500 words, 60%).
MBA83.	Behavioural finance	Individual in-class quiz (20 mins, 20%); individual in-class quiz (20 mins, 20%); individual in-class test (2.5 hours, 60%).
MBA58.	New venture finance	Individual assignment (1,500 words, 30%); group assignment (3,000 words, 50%); group presentation (deck of 20 slides, 15 mins, 20%).

Projects

MFIN24.	Equity research project	Group presentation (50%); Report (max. 2,500 words, 50%).
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Examination in Development Studies for the M.Phil. Degree, 2016–17

The Degree Committee of Politics and International Studies gives notice that the subjects for the examination in Development Studies for the degree of Master of Philosophy will be as follows:

Group 1

- 1 *Development economics*: to be examined by means of one 4,000-word essay and one two-hour examination.
- 2 *Institutions and development*: to be examined by means of one 4,000-word essay and one two-hour examination.
- 3 *Sociology and politics of development*: to be examined by means of one 4,000-word essay and one two-hour examination.
- 4 *Globalization, business, and development*: to be examined by means of one 4,000-word essay and one two-hour examination.
- 5 *Cities and development*: to be examined by means of one 4,000-word essay and one two-hour examination.

Group 2: full subjects

- 13 *Financial organization and economic growth*: to be examined by means of two 4,000-word essays.
- 14 *Philosophical issues in economic development*: ethics, capabilities, and rationality: to be examined by means of two 4,000-word essays.
- 30 *Justice and development*: to be examined by means of two 5,000-word essays.
- 31 *Trans-national criminal justice*: to be examined by means of two 5,000-word essays.
- 43 *Development issues in Sub-Saharan Africa*: to be examined by means of two 5,000-word essays.
- 400 *The development of Central Asia and caucuses*: to be examined by means of two 5,000-word essays.

Group 2: half subjects

- 340 *Gender and development*: to be examined by means of one 5,000-word essay.
- 350 *Religion and development*: to be examined by means of one 5,000-word essay.
- 380 *Migration and development*: to be examined by means of one 5,000-word essay.
- 600 *Food, agriculture, and development*: to be examined by means of one 5,000-word essay.
- 700 *Latin America: human development challenges*: to be examined by means of one 5,000-word essay.
- 900 *International humanitarianism and development*: to be examined by means of one 5,000-word essay.

Half-papers from the M.Phil. in Planning, Growth, and Regeneration (Land Economy) subject to the approval of the Department of Land Economy and the Course Director of the M.Phil. in Development Studies.

In place of one full subject or two half subjects in Group 2, a candidate may offer a dissertation of not more than 12,000 words.

Examination in Finance for the degree of Master of Philosophy, 2016–17

The Degree Committee for the Faculty of Business and Management gives notice that, in the academical year 2016–17, the subjects for the examination in Finance for the M.Phil. Degree will be as listed below. The method of examination is shown for each subject.

Group 1 (six compulsory subjects)

- | | | |
|-------------------|----------------|--|
| (1) | MF5A | Corporate finance I [one three-hour class test (100%)] |
| (2) | MF6A | Asset pricing I [one three-hour class test (80%), plus written problem set consisting of four questions (20%)] |
| (3) <i>either</i> | MF5B | Corporate finance II [one three-hour class test (40%), 1,000-word written referee report (25%), presentation (20%), and class participation (15%)] |
| | <i>or</i> MF6B | Asset pricing II [one three-hour class test (80%), plus written problem set consisting of four questions (20%)] |
| (4) <i>either</i> | SMO6 | Fundamentals of competitive markets [one two-hour class test] |
| | <i>or</i> M100 | Microeconomics I [two-hour written examination] |

Either

- | | | |
|-----|------|--|
| (5) | M300 | Econometric methods [two-hour written examination] and either |
| (6) | M310 | Further time series with applications in finance and macroeconomics [two-hour written examination] <i>or</i> |
| | M320 | Cross section and panel data econometrics [two-hour written examination] |

Or

- | | | |
|-----|-------|--|
| (5) | MP01 | Econometrics I [two 2.5-hour class tests] and |
| (6) | MP01A | Econometrics II [two 2.5-hour class tests] |

Group 2 (three optional subjects to be chosen)

MF10.	How to do finance [two written referee reports (75%), class participation (15%), attendance (10%)]
MFin14.	Fixed income analysis IA [Individual mid-term in-class quiz (1 hour, 40%); and in-class final test (1.5 hours, 60%)]
MFin30.	Principles of financial regulation [TBC as per M.Fin. Easter Notice published in Lent Term 2017]
MFin35.	Further econometrics [TBC as per M.Fin. Easter Notice published in Lent Term 2017]
MFin48.	Understanding the international economy and financial system [TBC as per M.Fin. Easter Notice published in Lent Term 2017]
ISOE9.	Organizational behaviour [4,000-word essay (75%), plus class participation (25%)]
M140.	Behavioural economics [two-hour written examination]
M150.	Economics of networks [two-hour written examination]
M170.	Industrial organization [two-hour written examination]
SMO2.	Incentives, behaviours, and operations [class participation (20%), summary of readings up to 2,000 words (25%), homework assignment up to 1,000 words (20%), and paper on research opportunities up to 2,500 words (35%)]
SMO3.	Process perspectives on innovation management [class participation (20%), 20-min. presentations/discussions (20%), final research proposal up to 2,500 words (30%), and take-home examination of four questions (30%)]
SMO10	Big Data techniques [report and analysis of example dataset completed over 72 hours (76%), practical exercise in each class (24%)]

Papers from Mathematical Tripos, Part III

See the Notice published on 26 October 2016 (*Reporter*, 6441, 2016–17, p. 65).

202	Stochastic calculus and application [one three-hour written examination]
205	Modern statistical methods [one three-hour written examination]
216	Bayesian modelling and computation [one three-hour written examination]
341	Numerical solution of differential equations [one three-hour written examination]

Examination in Finance and Economics for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Economics gives notice that, in the academical year 2016–17, the method of examination for paper *F530 Venture capital in the innovation economy* for the Finance and Economics M.Phil. Degree will be as follows.

F530 Venture capital in the innovation economy

This module will be examined by a 2,000-word essay submitted by the end of the Lent Term. Each candidate selects a topic that is within the remit of the lectured course. Candidates will write a paper that represents what would be the first sections of an academic research paper, proposing to address a subject drawn from the material of the course. The form of the paper may be empirical (quantitative or case study) or theoretical. The paper will include:

1. Statement of the problem to be addressed.
2. Motivation: why is this subject interesting?
3. Hypothesis: a possible explanation of the phenomenon under study.
4. Methodology: description of the methodological approach to be deployed and why it is relevant to the identified problem and the proposed hypothesis.
5. Literature review: this should include sources not included in the readings for the course (although they may be referenced in the course readings).

The form and conduct of each paper in the graduate programme can be found at: <http://www.econ.cam.ac.uk/intranet/info/FormandConduct-grad.pdf>.

Examination in Innovation, Strategy, and Organization for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Business and Management gives notice that in the academical year 2016–17, the subjects for the examination in Innovation, Strategy, and Organization for the degree of Master of Philosophy will be as listed below. The method of examination is shown for each subject.

Group 1 compulsory subjects

Either
ISO-4 Statistical concepts for management researchers
[1,000-word assignment (80%), plus half-hour seminar presentation (20%)]

Or

MPO-1 Econometrics I [two 2.5-hour tests]
MPO-2 Qualitative research methods
[answer five research exercises of no more than 1,000 words each]
ISO1 Information systems, innovation, and organisational change
[3,000-word essay (70%), plus half-hour seminar presentation (30%)]
ISO2 Organizations and strategic innovation
[3,000-word essay (70%), plus half-hour seminar group presentation (30%)]
ISO3 Organizations theory
[3,000-word essay (70%), plus half-hour seminar group presentation (30%)]

Group 2 optional papers

ISO5 Individual research project [4,000-word essay]
ISOE7 Seminar in strategy process [review of a journal article (20%), class participation (15%), leading discussion (15%), plus 4,000-word essay and response letter (50%)]
ISOE8 Organizational research methods [5,000-word essay]
ISOE9 Organizational behaviour [4,000-word essay (75%), plus class participation (25%)]
ISOE10 Consumer behaviour [discussion of ‘leading’ papers for class discussions (15%), class participation for discussion of all other articles (15%), homework-2-page summary of assigned readings (10%), plus 3,000-word essay (60%)]
ISOE11 Strategic organizing of digital innovation
[3,000-word essay (70%), plus half-hour seminar group presentation (30%)]
SMO2 Incentives, behaviours, and operations
[class participation (20%), summary of reading up to 2,000 words (25%), homework assignment up to 1,000 words (20%), plus paper on research opportunities up to 2,500 words (35%)]
SMO6 Fundamentals of competitive markets [one two-hour class test (100%)]

Examination in Management for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Business and Management gives notice that in the academical year 2016–17, the subjects for examination in Management for the degree of Master of Philosophy will be as listed below. The method of examination is shown for each subject.

Group 1 compulsory subjects

MM1 Quantitative techniques for management [two-hour written examination]
MM2 Marketing [two-hour written examination (50%), 10-minute group project presentation (20%), plus two case study assignments at 1,500 words each (30%)]
MM3 Business economics [two-hour written examination]
MM4 Strategy [two-hour written examination (70%), plus three team assignments at 400 words each (30%)]
MM5 Organizational analysis and behaviour
[two-hour written examination (80%), plus 10-minute group presentation with 5-minute Q&A (20%)]
MM6 Finance [two-hour written examination (70%), plus three 15-minute in-class written quizzes (30%)]
MM7 Accounting [two-hour written examination (70%), plus two group assignments at 1,500 words each (30%)]
MM8 Operations management [two-hour written examination with additional fifteen minutes of reading time]
MM9 Management consulting project [one-hour group presentation (70%), plus 3,000-word essay (30%)]

Group 2 optional papers

MME20	Business innovation in a digital age [individual class participation and 10-minute individual presentation with 5-minute Q&A and peer review (15%), 20-minute group case study presentation with 10-minute discussion (25%), plus 3,000-word individual assignment (60%)]
MME21	Ethics [3,000-word individual assignment (70%), plus 15-minute group presentation with 5-minute Q&A (30%)]
MME22	Supply chain management [two-hour written examination (60%), 3,000-word group assignment (30%), plus class participation (10%)]
MS7	Human resources management [3,000-word essay]
MS9	International business economics [3,000-word essay]
TPE25	Strategic valuation: uncertainty and real options in system design [project of no more than 4,000 words, comprising computer modelling and associated questions, and the preparation of a six-slide Powerpoint presentation (100%)]

Examination in Modern South Asian Studies for the M.Phil. Degree, 2016–17

The Degree Committee of Politics and International Studies gives notice that the mandatory and optional modules available to study for the examination in Modern South Asian Studies for the degree of Master of Philosophy (*Statutes and Ordinances*, p. 519) in the academical year 2016–17 will be:

SA1 Introduction to modern South Asia: key themes, concepts, and debates (core course)

This will be examined by an essay of not more than 3,000 words on a topic chosen from a list approved by the Degree Committee and a book review of not more than 2,000 words on a book chosen by the candidate within the remit of the core course.

SA2 Optional course

This will be examined by an essay of not more than 5,000 words on a topic under either (i), (ii), or (iii) below chosen by the candidate from a list approved by the Degree Committee:

- (i) Mobility, circulation, and diaspora: migration, society, and politics in modern South Asia
- (ii) Social movements, dissent, and belonging in colonial and postcolonial South Asia
- (iii) Cities and development

The Degree Committee of Politics and International Studies reserves the right to withdraw modules if there is insufficient demand or in the event of exceptional circumstances.

Examination in Public Policy for the M.Phil. Degree, 2016–17

The Degree Committee of Politics and International Studies gives notice that, with effect from the examinations to be held in 2016–17, the form of the examination for the following papers for the examination in Public Policy for the degree of Master of Philosophy, will be as follows:

PP/CS1. Case study 1

Candidates will be required to submit an essay, or equivalent, of not more than 3,000 words, the topic to be based on one of the four case studies delivered during the Michaelmas Term.

PP/CS2. Case study 2

Candidates will be required to submit an essay, or equivalent, of not more than 3,000 words, the topic to be based on one of the four case studies delivered during the Lent Term.

PP/CS3. Case study 3

Candidates will be required to submit an essay, or equivalent, of not more than 3,000 words, the topic to be based on one of the four case studies delivered during the Easter Term.

PP/IPP Introduction to the policy process and policy analysis

Candidates will be required to complete two problem sets of three to four questions each.

PP/MTP Introduction to macroeconomics for policy

This paper, previously titled *Macroeconomics: theory and policy*, will now be assessed by an essay of not more than 3,000 words, or equivalent. Candidates will select one question from a broader choice. (Formerly assessed by a two-hour written examination.)

PP/PPA Philosophy and public affairs

Candidates will be required to submit an essay of not more than 3,000 words, or equivalent. Candidates will select one question from a broader choice.

PP/STA Statistics

Candidates will be required to successfully complete the assessment element of certain basic statistics modules delivered by the SSRMC (the modules specified for each candidate will be dependent on individual pre-course skills checks). Additionally, all candidates will complete a 500-word critique of a journal article, applying statistical knowledge. (This paper was previously assessed by a course project.)

PP/SMN Science, evidence, and policy

This paper was previously titled *Scientific method and the nature of evidence*. Candidates will be required to submit an essay of not more than 3,000 words, or equivalent. Candidates will select one question from a broader choice.

PP/TEP Topics in economic policy

Candidates will be required to submit an essay of not more than 3,000 words, or equivalent. Candidates will select one question from a broader choice.

PP/PLI Politics and public policy

This paper was previously titled *Political and legal institutions*. Candidates will be required to submit an essay of not more than 3,000 words, or equivalent. Candidates will select one question from a broader choice. (Previously assessed by a two-hour written examination.)

Examination in Strategy, Marketing, and Operations for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Business and Management gives notice that in the academical year 2016–17 the subjects for examination in Strategy, Marketing, and Operations for the degree of Master of Philosophy will be as listed below. The method of examination is shown for each subject.

Group 1 (compulsory subjects which can be replaced by other subjects from Group 2 subject to written approval from the academic programme director)

- | | | |
|-----|--------|--|
| (1) | MP01 | Econometrics I [two 2.5-hour class tests] |
| (2) | MP01A | Econometrics II [two 2.5-hour class tests] |
| (3) | SMO2 | Incentives, behaviours, and operations [class participation (20%), summary of reading up to 2,000 words (25%), homework assignment up to 1,000 words (20%), and paper on research opportunities up to 2,500 words (35%)] |
| (4) | SMO3 | Process perspectives on innovation management [class participation (20%), 20-minute presentations/discussions (20%), final research proposal up to 2,500 words (30%), and take-home examination of four questions (30%)] |
| (5) | SMO6 | Fundamentals of competitive markets [one two-hour class test (100%)] |
| (6) | SMO9 | Mathematical foundations of operations management [class participation (20%), 30–40-minute presentation and summaries of up to six articles (30%), provisions of proofs no more than 2,000 words (30%), and no more than 2,000-word reviewer's report (20%)] |
| (7) | ISOE7 | Seminar in strategy process [review of a journal article (20%), class participation (15%), leading discussion (15%), plus 4,000-word essay and response letter (50%)] |
| (8) | SMO10 | Big Data techniques [report and analysis of example dataset completed over 72 hours (76%), plus practical exercise in each class (24%)] |
| (9) | ISOE10 | Consumer behaviour [discussion of 'leading' papers for class discussions (15%), class participation for discussion of all other articles (15%), homework-2-page summary of assigned readings (10%), plus 3,000-word essay (60%)] |

Group 2 (optional subjects)

- | | |
|--------|--|
| SMO5 | Individual research project [4,000-word essay (100%)] |
| MFin35 | Further econometrics [TBC as per M.Fin. Easter Term Notice to be published in Lent Term 2017] |
| ISO1 | Information systems, innovation, and organizational change [3,000-word essay (70%), plus half-hour seminar presentation (30%)] |
| ISO2 | Organizations and strategic innovation [3,000-word essay (70%), plus half-hour seminar group presentation (30%)] |
| ISO3 | Organizations theory [3,000-word essay (70%), plus half-hour seminar group presentation (30%)] |
| ISOE8 | Organizational research methods [5,000-word essay] |
| ISOE9 | Organizational behaviour [4,000-word essay (75%), plus class participation (25%)] |
| ISOE11 | Strategic organizing of digital innovation [3,000-word essay (70%), plus half-hour seminar group presentation (30%)] |

Examination in Technology Policy for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Business and Management gives notice that in the academical year 2016–17, the subjects for examination in Technology Policy for the degree of Master of Philosophy will be as listed below.

The method of examination is shown for each subject. Students must take twelve modules (six core modules, two Sectorial and Skills electives, two Enterprise Stream electives, and two Open electives). Students are also required to complete a Final Group Project.

Core modules (compulsory)

TP1	Technology policy: concepts and frameworks [assessed by a two-hour end-of-term written in-class test (80%), and class participation in the form of blog and Twitter contributions (20%)]
TP2	Economic foundations of technology policy [assessed 100% by a two-hour end-of-term written in-class test]
TP3	Case studies and simulations [assessed by a 3,000-word essay (90%) and class participation (10%)]
TP4	Business, government, and technology in emerging markets [two-hour end-of-term written in-class test (100%)]
TP5	Policy, design, and evaluation [two-hour end-of-term written in-class test (100%)]
TP6	Deciphering the European Union: business-government relations [policy analysis (80%), plus a debate presentation (20%)]
FGP	Final group project [12,000-word written report (70%), plus a 90-minute client presentation (30%) [double weighted]]

Electives

SECTORIAL AND SKILLS

TPE22	Electricity and environment [1,000-word paper (30%) and a 2,000-word paper (70%)]
TPE23	Negotiation skills [1,000-word essay (30%), a 2,000-word essay (60%), and class participation (10%)]
TPE25	Strategic valuation: uncertainty and real options in system design [project of no more than 4,000 words, comprising computer modelling and associated questions, and the preparation of a six-slide PowerPoint presentation (100%)]

M.Phil. in Technology Policy students are permitted to borrow any of the following modules as a Sectorial and Skills elective:

The following module offered on Part IIB of the Engineering Tripos in 2016; details of available modules and formats of examination were published in the Notice of 25 May 2016 (*Reporter*, 6427, 2015–16, p. 576). For those modules shown as assessed by examination, this will be by one written paper of 1.5 hours duration. For those modules shown as assessed by coursework, students should contact the Department of Engineering for precise details of the requirements.

4E3	Information systems
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ENTERPRISE STREAM

TPE20	Managing the innovation process [class participation (20%), a case write-up of up to 2,500 words (40%), and a group project of up to 2,500 words (40%)]
TPE21	Entrepreneurial science and innovation policy [two 1,000-word group assignments (25% each), and a 4,000-word essay (50%)]
TPE24	Competitive strategy in the digital age: platform markets, network effects, and the new rules of strategy [2,500-word essay (80%), and class participation (20%)]

M.Phil. in Technology Policy students are permitted to borrow any of the following modules as an Enterprise Stream elective:

The following module offered on Part IIB of the Engineering Tripos in 2016; details of available modules and formats of examination were published in the Notice of 25 May 2016 (*Reporter*, 6427, 2015–16, p. 576). For those modules shown as assessed by examination, this will be by one written paper of 1.5 hours duration. For those modules shown as assessed by coursework, students should contact the Department of Engineering for precise details of the requirements.

4E4	Management of technology
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OPEN

M.Phil. in Technology Policy students are permitted to borrow any of the following modules as an Open Stream elective:

From the M.Phil. in Innovation, Strategy, and Organization:

ISO1	Information systems, innovation, and organizational change [3,000-word essay (70%), plus half-hour seminar presentation (30%)]
ISO2	Organizations and strategic innovation [3,000-word essay (70%), plus half-hour seminar group presentation (30%)]
ISOE11	Strategic organizing of digital innovation [3,000-word essay (70%), plus half-hour seminar group presentation (30%)]

The following module offered on Part IIb of the Engineering Tripos in 2016; details of available modules and formats of examination were published in the Notice of 25 May 2016 (*Reporter*, 6427, 2015–16, p. 576). For those modules shown as assessed by examination, this will be by one written paper of 1.5 hours duration. For those modules shown as assessed by coursework, students should contact the Department of Engineering for precise details of the requirements.

4E5	International business
4E6	Accounting and finance
4E11	Strategic management
4M14	Sustainable development

The following modules offered on M.Phil. in Engineering for Sustainable Development in 2016; details of available modules and formats of examination were published in the Notice of 27 July 2016 (*Reporter*, 6434, 2015–16, p. 809).

ESD150	Driving change towards sustainability
ESD350	Sustainability buildings and built environments
ESD450	Policy, legislation, and government
ESD550	Sustainable design and implementation
ESD650	Development engineering
ESD900	Management of resilient water systems

REPORTS

Report of the General Board on the rescinding of the Medical and Veterinary Sciences Tripos and the introduction of two new Triposes, the Medical Sciences Tripos and the Veterinary Sciences Tripos

The GENERAL BOARD begs leave to report to the University as follows:

1. This Report proposes the rescinding of the Medical and Veterinary Sciences Tripos (MVST), and the introduction of two new Triposes, the Medical Sciences Tripos and the Veterinary Sciences Tripos, with effect from October 2018.

2. These proposals have the support of: the Faculty Board of Biology; the Medical Education Committee, Veterinary Education Committee, and MVST Part I Committee; the Senior Tutors' Committee; and the Undergraduate Admissions Committee.

3. The proposal to replace the Medical and Veterinary Sciences Tripos with the two new Triposes is intended to support recruitment and admissions efforts, and better reflect the current differences in teaching and assessment of preclinical medical and veterinary students which have evolved since the current Medical and Veterinary Sciences Tripos regulations were introduced in 2000 (*Reporter*, 1999–2000; 5795, p. 257; 5798, p. 366). The two new Triposes will each retain the academic and scientific rigour of the MVST, but without the constraints of the current Tripos, and will better align with the respective clinical courses and the accreditation requirements of the General Medical Council and the Royal College of Veterinary Surgeons.

4. The pre-clinical medical and veterinary courses are already advertised separately in the University's Undergraduate Prospectus, with different UCAS codes. Transfer is prohibited between medicine and veterinary medicine. In order to meet the requirements of the accrediting bodies, the two courses set different requirements for professional work experience, and therefore have different work patterns and workloads. The continued joining of the veterinary and the medical courses in a single Tripos imposes unnecessary restrictions on both courses.

5. In response to concerns expressed by the Cambridge Veterinary School about the recruitment of veterinary students, the Senior Tutors' Committee has agreed that a lower 'typical offer' should apply to applicants for the Veterinary Science Tripos.

6. The co-teaching of core scientific material to medical and veterinary students is unique to Cambridge, and under this proposal the current arrangements for co-teaching of students would continue as before. Co-teaching of medical and veterinary students is an important and desirable element of the courses, as it underlines the scientific nature of the courses and allows students to benefit from the diverse and rigorous academic milieu of Cambridge, and

prepares graduates to be high achievers in an unusually wide range of future careers. It is also an effective use of teaching and learning resources that limits the impact of this change on the Faculty and Departments.

7. The structure of each of the two Triposes would remain in two Parts. If the recommendations of this Report are approved, the following papers would be taken under each Tripos:

Part IA students on the Medical Sciences Tripos will take three papers:

- Functional Architecture of the Body (FAB)
- Homeostasis (HOM)
- Molecules in Medical Science (MIMS)

Part IA students on the Veterinary Sciences Tripos will take three papers:

- Veterinary Anatomy and Physiology (VAP)
- Homeostasis (HOM)
- Molecules in Medical Science (MIMS)

Part IB students on the Medical Sciences Tripos will take five papers:

- Biology of Disease (BOD)
- Mechanisms of Drug Action (MODA)
- Head and Neck Anatomy (HNA)
- Human Reproduction (HR)
- Neurobiology with Human Behaviour (NHB)

Part IB students on the Veterinary Sciences Tripos will take five papers:

- Biology of Disease (BOD)
- Mechanisms of Drug Action (MODA)
- Veterinary Reproductive Biology (VRB)
- Neurobiology with Animal Behaviour (NAB)
- Comparative Vertebrate Biology (CVB)

8. The current examination arrangements are less than satisfactory because although the preclinical courses differ, and the two cohorts have different work patterns and workloads, veterinary and medical students are examined under the same Tripos and are assessed in direct competition with each other. Examination content, weighting, and emphasis is matched as far as is possible, and a single class-list is drawn up, but the arrangements are compromised. The creation of two new Triposes will allow assessment processes to be improved to support student progression within a more appropriate student cohort. The proposed changes will introduce separate class-lists, without the comparative element between the different cohorts.

9. If the proposals are approved, in order to maintain and enhance academic quality, the MVST Part I Committee, under a new name, will continue to contribute to the administration of the two overlapping courses. Overall responsibility for the courses would lie with the Medical Education Committee and Veterinary Education Committee, liaising with the Faculty Boards of Clinical Medicine and Veterinary Medicine, and reporting to the Faculty Board of Biology.

10. The General Board recommends:

- I. That the Medical and Veterinary Sciences Tripos be rescinded and that a Medical Sciences Tripos and a Veterinary Sciences Tripos be established with effect from 1 October 2018, with regulations as set out in Annexes I and II.
- II. If Recommendation I is approved, that the consequential amendments set out in Annex III be approved with effect from 1 October 2018.

30 November 2016 L. K. BORYSIEWICZ, *Vice-Chancellor*
 CHAD ALLEN
 PHILIP ALLMENDINGER
 ANNE DAVIS
 ABIGAIL FOWDEN

DAVID GOOD
 A. L. GREER
 ROBERTA HULDISCH
 PATRICK MAXWELL
 MARTIN MILLETT

RACHAEL PADMAN
 RICHARD PRAGER
 HELEN THOMPSON
 GRAHAM VIRGO
 CHRIS YOUNG

Annex I

MEDICAL SCIENCES TRIPOS

GENERAL

1. The Medical Sciences Tripos shall consist of two Parts: Part IA and Part IB.
2. The following may present themselves as candidates for honours in Part IA:
 - (a) a student who has not obtained honours in another Honours Examination, provided that he or she has kept one term and that three complete terms have not passed after her or his first term of residence,¹
 - (b) a student who has obtained honours in another Honours Examination, in the year after so obtaining honours, provided that nine complete terms have not passed after her or his first term of residence.
3. A student who has obtained honours in Part IA of the Medical Sciences Tripos may be a candidate for honours in Part IB in the year after so obtaining honours, provided that twelve complete terms have not passed after her or his first term of residence.
4. Notwithstanding the provisions of Regulations 2 and 3, a student who is above the standing for honours may be a candidate not for honours in Part IA and Part IB for the purpose of becoming qualified to be a candidate subsequently for the Final M.B. Examination.

¹ See also the regulations for Affiliated Students (p. 166).

5. No student shall be a candidate for more than one Part, or for any Part and another Honours Examination, in the same term.

6. No student who has been a candidate for any Part shall again be a candidate for the same Part.

7. The Faculty Board of Biology shall have power to issue from time to time supplementary regulations defining or limiting all or any of the subjects of the examinations for Part IA and Part IB. Due care shall be taken that sufficient notice is given of any alteration of such supplementary regulations.

8. There shall be two bodies of Examiners, one for each Part of the Tripos. For each of the two bodies there shall be a Chair of Examiners and an Assistant Chair, appointed on the nomination of the Faculty Board of Biology.

9. In each Part of the Tripos there shall be appointed for each subject a Senior Examiner and such number of Examiners and Assessors as are required to conduct the examination. The Examiners shall be nominated by the Faculty Board of Biology.

10. The Examiners in each subject shall be jointly responsible for all the questions set in that subject. The work of each candidate in any subject shall be tested by at least two Examiners in the subject, and the Examiners in each subject shall be jointly responsible for the marks in that subject. At least two Examiners or one Examiner and one Assessor shall set and conduct every oral and practical examination. The Examiners shall have regard to the style and method of candidates' answers, and shall give credit for excellence in these respects.

11. The Assessors shall propose questions in the parts of the subjects assigned to them by the Examiners, shall look over the answers of the candidates to those questions, and shall report thereon to the Examiners. The Assessors may be required to assist the Examiners in setting and conducting every oral and practical examination. The Assessors may be summoned to meetings of the Examiners for the purpose of consultation and advice, but shall not be entitled to vote.

12. The Chair shall communicate the marks of all candidates to the Registry.

13. The names of candidates who, having presented themselves under Regulation 4, attain the prescribed standard shall be published by the Examiners in lists headed 'The following (who are not candidates for honours) have attained the honours standard'.

PART IA

14. In Part IA the examination shall consist of the following subjects:

- Functional Architecture of the Body (FAB)
- Homeostasis (HOM)
- Molecules in Medical Science (MIMS)

15. The examination in each subject shall consist of *either* two written papers *or* one written paper and a practical examination, covering three sections numbered I–III, as specified below. In addition, the examination in Homeostasis shall include the submission of reports of practical work.

(a) The examination in Homeostasis shall consist of:

- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I)¹ and essay questions (Section III); candidates will be allowed one hour to complete Section I;
- (ii) a practical examination of two hours (Section II);¹
- (iii) reports of practical work which shall be submitted to the Examiners by the dates published in the practical handbook. In assigning marks for the examination, the Examiners may take account of the reports.

(b) The examination in Molecules in Medical Science shall consist of:

- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I) and practical questions (Section II);¹ candidates will be allowed one hour to complete Section I;
- (ii) one written paper of two hours (Section III).

(c) The examination in Functional Architecture of the Body shall consist of:

- (i) one written paper of two hours and 45 minutes, which shall contain compulsory short-answer questions (Section I)¹ and essay questions (Section III); candidates will be allowed 45 minutes to complete Section I;
- (ii) a practical examination of one hour and 15 minutes (Section II).¹

¹ In each subject of Part IA Sections I and II of the examination also serve as the examination in the corresponding subject of the Second M.B. Examination.

16. In each subject the examination shall carry the same maximum marks; the maximum marks allocated to Sections I and II together shall be equal to the maximum marks allocated to the remaining parts of the examination in that subject.

17. Every candidate shall offer for examination all of the subjects listed under Regulation 14.

18. The names of the candidates who obtain honours in Part IA shall be arranged in three classes, of which the second shall be divided into two divisions. The names in the first and third classes, and in each division of the second class, shall be arranged in alphabetical order.

PART IB

19. In Part IB the examination shall consist of the following subjects:

- Biology of Disease (BOD)
- Head and Neck Anatomy (HNA)
- Human Reproduction (HR)
- Mechanisms of Drug Action (MODA)
- Neurobiology with Human Behaviour (NHB)

20. The examination in each subject shall consist of one written paper and a practical examination, covering three sections numbered (I)–(III) as specified below.

- (a) The examination in Biology of Disease shall consist of:
- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I)¹ and essay questions (Section III); candidates will be allowed one hour to complete Section I;
 - (ii) a practical examination of two hours (Section II).¹
- (b) The examination in Mechanisms of Drug Action shall consist of:
- (i) one written paper of one-and-a-half hours which shall contain compulsory short-answer questions (Section I);¹
 - (ii) a practical examination of two hours (Section II);¹
 - (iii) one written paper of two hours containing essay questions (Section III).
- (c) The examination in Neurobiology with Human Behaviour shall consist of:
- (i) one written paper of one and a half hours which shall contain compulsory short-answer questions (Section I);¹
 - (ii) a practical examination of one hour (Section II);¹
 - (iii) one written paper of three hours (Section III) which shall contain essay questions on Neurobiology and Psychology of Medicine.
- (d) The examination in Human Reproduction shall consist of:
- (i) one written paper of two-and-a-half hours, which shall contain compulsory short-answer questions (Section I)¹ and essay questions (Section III); candidates will be allowed one hour to complete Section I;
 - (ii) a practical examination of one hour (Section II).¹
- (e) The examination in Head and Neck Anatomy shall consist of combined written and practical papers totalling an hour and a half, which shall contain a practical paper (Sections I and II)¹ and short answer questions (Section III).

21. Every candidate shall offer for examination all of the subjects listed under Regulation 19.

22. The maximum marks allocated to the examination in each subject or paper shall be in the following proportions:

Biology of Disease (BOD)	10
Head and Neck Anatomy (HNA)	4
Human Reproduction (HR)	8
Mechanisms of Drug Action (MODA)	10
Neurobiology with Human Behaviour (NHB)	14

For the examinations in each subject, the maximum marks for Sections I and II together shall be equal to the maximum marks allocated to Section III.

23. The names of the candidates who obtain honours in Part IB shall be arranged in three classes, of which the second shall be divided into two divisions. The names in the first and third classes, and in each division of the second class, shall be arranged in alphabetical order.

¹ In each subject of Part IB Sections I and II of the examination also serve as the examination in the corresponding subject of the Second M.B. Examination.

TEMPORARY REGULATION

24. The examinations for the Tripos shall be held for the first time as follows:

Part IA in 2019;

Part IB in 2020.

SUPPLEMENTARY REGULATIONS

PART IA

Functional Architecture of the Body (FAB)

Section I will consist of compulsory short-answer questions on tissue anatomy, aspects of organogenesis, the topographical, functional, and applied anatomy of the human body. Section II will consist of a practical examination and will cover similar aspects. In Section III, candidates will be required to write essays.

Homeostasis (HOM)

Section I will contain computer-marked and short-answer questions on nerve and neuromuscular transmission, muscle, autonomic nervous system, cardiovascular system, respiration, kidney, salt and water balance, digestion, absorption, and temperature regulation. Section II will contain questions on the practical work in experimental physiology and histology. Section III will contain essay questions. Candidates will also be required to submit note-books containing records of practical work (see Regulation 15(a)(iii)).

Molecules in Medical Science (MIMS)

The examination will test knowledge and understanding of the material contained in the MIMS course. Section I will consist of short-answer questions on the lecture material. Section II will consist of questions on practical aspects, including interpretation and handling of data. Section III will contain essay questions and will consist of three subsections, A, B, and C, each containing a choice of questions. Candidates will be required to answer one question from each subsection. Subsection A will relate principally to the lectures given in the Michaelmas Term, subsection B principally to the lectures given in the Lent and Easter Terms, and subsection C to the entire course of lectures and practicals. The nature of the questions in Section III will be to test integrated understanding rather than detailed factual knowledge.

PART IB

Biology of Disease (BOD)

The examination in BOD will be treated from the standpoint of abnormal biology. It will include the variations that may occur in the structure and functions of living cells, tissues, and organs, together with the biology of parasites, bacteria, and viruses. Section I will consist of compulsory short-answer questions on the lecture material. Section III will consist of essay questions. Section II will consist of a two-hour practical examination which will include laboratory work and questions on practical aspects and problem solving.

Head and Neck Anatomy (HNA)

The examination will require knowledge of the structure and function of the human head and neck.

Human Reproduction (HR)

Section I will consist of compulsory short-answer questions and Section II will consist of practical questions. Section III will consist of a written paper that will contain essay questions on reproductive biology and the social and ethical aspects of reproduction and the effects of reproductive activity on populations.

Mechanisms of Drug Action (MODA)

Section I of the examination in MODA will require knowledge of the actions of drugs on whole organisms and mammalian systems, and also of the mode of drug action at the cellular, sub-cellular, and molecular levels. Section I will include compulsory short-answer questions and Section III will include essay questions. Section II will consist of a practical examination and will include questions on data handling and problem solving; laboratory work will not be involved. Questions that require an elementary knowledge of statistical procedures may be included in all three sections of the examination.

Neurobiology with Human Behaviour (NHB)

The examination in NHB will require knowledge of the structure and functions of the central nervous system and the special sense organs, neuroanatomy, experimental psychology and some of its applications to medicine. Particular topics will include neuropharmacology; learning and memory; perception and information processing; intelligence and development; emotion and its physiological basis; and social psychology. Section I will include or consist entirely of compulsory short-answer questions. Section III will consist of essay questions. In Section II, candidates will be examined on practical aspects of neuroanatomy and in experimental neurophysiology; questions may be included which require an elementary knowledge of statistical procedures.

Annex II

VETERINARY SCIENCES TRIPOS

GENERAL

1. The Veterinary Sciences Tripos shall consist of two Parts: Part IA and Part IB.
2. The following may present themselves as candidates for honours in Part IA:
 - (a) a student who has not obtained honours in another Honours Examination, provided that he or she has kept one term and that three complete terms have not passed after her or his first term of residence,¹
 - (b) a student who has obtained honours in another Honours Examination, in the year after so obtaining honours, provided that nine complete terms have not passed after her or his first term of residence.
3. A student who has obtained honours in Part IA of the Veterinary Sciences Tripos may be a candidate for honours in Part IB in the year after so obtaining honours, provided that twelve complete terms have not passed after her or his first term of residence.
4. Notwithstanding the provisions of Regulations 2 and 3, a student who is above the standing for honours may be a candidate not for honours in Part IA and Part IB for the purpose of becoming qualified to be a candidate subsequently for Part I of the Final Veterinary Examination.
5. No student shall be a candidate for more than one Part, or for any Part and another Honours Examination, in the same term.
6. No student who has been a candidate for any Part shall again be a candidate for the same Part.
7. The Faculty Board of Biology shall have power to issue from time to time supplementary regulations defining or limiting all or any of the subjects of the examinations for Part IA and Part IB. Due care shall be taken that sufficient notice is given of any alteration of such supplementary regulations.
8. There shall be two bodies of Examiners, one for each Part of the Tripos. For each of the two bodies there shall be a Chair of Examiners and an Assistant Chair, appointed on the nomination of the Faculty Board of Biology.
9. In each Part of the Tripos there shall be appointed for each subject a Senior Examiner and such number of Examiners and Assessors as are required to conduct the examination. The Examiners shall be nominated by the Faculty Board of Biology.
10. The Examiners in each subject shall be jointly responsible for all the questions set in that subject. The work of each candidate in any subject shall be tested by at least two Examiners in the subject, and the Examiners in each subject shall be jointly responsible for the marks in that subject. At least two Examiners or one Examiner and one Assessor shall set and conduct every oral and practical examination. The Examiners shall have regard to the style and method of candidates' answers, and shall give credit for excellence in these respects.
11. The Assessors shall propose questions in the parts of the subjects assigned to them by the Examiners, shall look over the answers of the candidates to those questions, and shall report thereon to the Examiners. The Assessors may be required to assist the Examiners in setting and conducting every oral and practical examination. The Assessors may be summoned to meetings of the Examiners for the purpose of consultation and advice, but shall not be entitled to vote.
12. The Chair shall communicate the marks of all candidates to the Registry.
13. The names of candidates who, having presented themselves under Regulation 4, attain the prescribed standard shall be published by the Examiners in lists headed 'The following (who are not candidates for honours) have attained the honours standard'.

¹ See also the regulations for Affiliated Students (p. 166).

PART IA

14. In Part IA the examination shall consist of the following subjects:
 - Homeostasis (HOM)
 - Molecules in Medical Science (MIMS)
 - Veterinary Anatomy and Physiology (VAP)
15. The examination in each subject shall consist of *either* two written papers *or* one written paper and a practical examination, covering three sections numbered I–III, as specified below. In addition, the examination in Homeostasis shall include the submission of reports of practical work.

- (a) The examination in Homeostasis shall consist of:
- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I)¹ and essay questions (Section III); candidates will be allowed one hour to complete Section I;
 - (ii) a practical examination of two hours (Section II);¹
 - (iii) reports of practical work which shall be submitted to the Examiners by the dates published in the practical handbook. In assigning marks for the examination, the Examiners may take account of the reports.
- (b) The examination in Molecules in Medical Science shall consist of:
- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I) and practical questions (Section II);¹ candidates will be allowed one hour to complete Section I;
 - (ii) one written paper of two hours (Section III).
- (c) The examination in Veterinary Anatomy and Physiology shall consist of:
- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I)¹ and essay questions (Section III); candidates will be allowed one hour to complete Section I;
 - (ii) a practical examination of two hours (Section II)¹.

16. In each subject the examination shall carry the same maximum marks; the maximum marks allocated to Sections I and II together shall be equal to the maximum marks allocated to the remaining parts of the examination in that subject.

17. Every candidate shall offer for examination all of the subjects listed in Regulation 14.

18. The names of the candidates who obtain honours in Part IA shall be arranged in three classes, of which the second shall be divided into two divisions. The names in the first and third classes, and in each division of the second class, shall be arranged in alphabetical order.

¹ In each subject of Part IA Sections I and II of the examination also serve as the examination in the corresponding subject of the Second Vet.M.B. Examination.

PART IB

19. In Part IB the examination shall consist of the following subjects:

- Biology of Disease (BOD)
- Comparative Vertebrate Biology (CVB)
- Mechanisms of Drug Action (MODA)
- Neurobiology with Animal Behaviour (NAB)
- Veterinary Reproductive Biology (VRB)

20. The examination in each subject shall consist of one written paper and a practical examination, covering three sections numbered (I)–(III) as specified below.

- (a) The examination in Biology of Disease shall consist of:
- (i) one written paper of three hours, which shall contain compulsory short-answer questions (Section I)² and essay questions (Section III); candidates will be allowed one hour to complete Section I;
 - (ii) a practical examination of two hours (Section II).²
- (b) The examination in Mechanisms of Drug Action shall consist of:
- (i) one written paper of one and a half hours which shall contain compulsory short-answer questions (Section I);²
 - (ii) a practical examination of two hours (Section II);²
 - (iii) one written paper of two hours containing essay questions (Section III).
- (c) The examination in Neurobiology with Animal Behaviour shall consist of:
- (i) one written paper of one hour, which shall contain compulsory short-answer questions (Section I);²
 - (ii) a practical examination of one hour (Section II);²
 - (iii) one written paper of two hours (Section III) which shall contain essay questions on Neurobiology with Animal Behaviour.

² In each subject of Part IB Sections I and II of the examination also serve as the examination in the corresponding subject of the Second Vet.M.B. Examination.

- (d) The examination in Neurobiology with Human Behaviour shall consist of:
- (i) one written paper of one and a half hours which shall contain compulsory short-answer questions (Section I);²
 - (ii) a practical examination of one hour (Section II);²
 - (iii) one written paper of three hours (Section III) which shall contain essay questions on Neurobiology and Psychology of Medicine.
- (e) The examinations in Human Reproduction and in Veterinary Reproductive Biology shall each consist of:
- (i) one written paper of two-and-a-half hours, which shall contain compulsory short-answer questions (Section I)² and essay questions (Section III); candidates will be allowed one hour to complete Section I;
 - (ii) a practical examination of one hour (Section II).²
- (f) The examination in Comparative Vertebrate Biology shall consist of:
- (i) a combined written and practical paper of one-and-a-half hours, which shall contain short answer questions (Section I) and a practical examination (Section II)²; candidates will be allowed forty-five minutes to complete each section;
 - (ii) one written paper of one-and-a-half hours, which shall contain essay questions (Section III).
- (g) The examination in Head and Neck Anatomy shall consist of combined written and practical papers totalling one-and-a-half hours, which shall contain a practical paper (Sections I and II)² and short answer questions (Section III).

21. Every candidate shall offer for examination all of the subjects listed in Regulation 19.

22. The maximum marks allocated to the examination in each subject or paper shall be in the following proportions:

Biology of Disease (BOD)	10
Comparative Vertebrate Biology (CVB)	8
Mechanisms of Drug Action (MODA)	10
Neurobiology with Animal Behaviour (NAB)	10
Veterinary Reproductive Biology (VRB)	8

For the examinations in each subject, the maximum marks for Sections I and II together shall be equal to the maximum marks allocated to Section III.

23. The names of the candidates who obtain honours in Part Ib shall be arranged in three classes, of which the second shall be divided into two divisions. The names in the first and third classes, and in each division of the second class, shall be arranged in alphabetical order.

TEMPORARY REGULATION

24. The examinations for the Tripos shall be held for the first time as follows:

Part IA in 2019;

Part IB in 2020.

² In each subject of Part Ib Sections I and II of the examination also serve as the examination in the corresponding subject of the Second Vet.M.B. Examination.

SUPPLEMENTARY REGULATIONS

PART IA

Homeostasis (HOM)

Section I will contain computer-marked and short-answer questions on nerve and neuromuscular transmission, muscle, autonomic nervous system, cardiovascular system, respiration, kidney, salt and water balance, digestion, absorption, and temperature regulation. Section II will contain questions on the practical work in experimental physiology and histology. Section III will contain essay questions. Candidates will also be required to submit note-books containing records of practical work (see Regulation 15(a)(iii)).

Molecules in Medical Science (MIMS)

The examination will test knowledge and understanding of the material contained in the MIMS course. Section I will consist of short-answer questions on the lecture material. Section II will consist of questions on practical aspects, including interpretation and handling of data. Section III will contain essay questions and will consist of three subsections, A, B, and C, each containing a choice of questions. Candidates will be required to answer one question from each

subsection. Subsection A will relate principally to the lectures given in the Michaelmas Term, subsection B principally to the lectures given in the Lent and Easter Terms, and subsection C to the entire course of lectures and practicals. The nature of the questions in Section III will be to test integrated understanding rather than detailed factual knowledge.

Veterinary Anatomy and Physiology (VAP)

Section I will consist of computer-marked and short-answer questions on the anatomy of domestic mammals and on the structure and function of the gastrointestinal systems of herbivorous mammals. Section II will consist of questions on associated practical work. In Section III, candidates will be required to write two or three essays chosen from not fewer than eight.

PART IB

Biology of Disease (BOD)

The examination in BOD will be treated from the standpoint of abnormal biology. It will include the variations that may occur in the structure and functions of living cells, tissues, and organs, together with the biology of parasites, bacteria, and viruses. Section I will consist of compulsory short-answer questions on the lecture material. Section III will consist of essay questions. Section II will consist of a two-hour practical examination which will include laboratory work and questions on practical aspects and problem solving.

Comparative Vertebrate Biology (CVB)

The examination will require knowledge of the structure and function of birds, fish, amphibians, and reptiles, and certain species of laboratory animal.

Mechanisms of Drug Action (MODA)

Section I of the examination in MODA will require knowledge of the actions of drugs on whole organisms and mammalian systems, and also of the mode of drug action at the cellular, sub-cellular, and molecular levels. Section I will include compulsory short-answer questions and Section III will include essay questions. Section II will consist of a practical examination and will include questions on data handling and problem solving; laboratory work will not be involved. Questions that require an elementary knowledge of statistical procedures may be included in all three sections of the examination.

Neurobiology with Animal Behaviour (NAB)

The examination in NAB will require knowledge of the structure and functions of the central nervous system, the special sense organs, neuropharmacology, and animal behaviour, with particular reference to domestic animals. Section I will include or consist entirely of compulsory short-answer questions. Section III will consist of essay questions. In Section II, candidates will be examined on practical aspects of neuroanatomy and in experimental neurophysiology; questions may be included which require an elementary knowledge of statistical procedures.

Veterinary Reproductive Biology (VRB)

Section I of the examination will consist of computer-marked and short-answer questions on the structure and function of the reproductive systems of mammals, with particular reference to domestic mammals. Section II will consist of questions on associated practical work and may include a data-handling exercise. Section III will consist of essay questions.

Annex III

By amending the references to the Medical and Veterinary Sciences Tripos in Schedule I of the regulations for Examination Requirement for Matriculation (*Statutes and Ordinances*, p. 165) so as to read:

Medical Sciences and Veterinary Sciences	GCSEs – Double Award Science and Mathematics or single award Biology and Physics and Mathematics
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By amending the references to the Medical and Veterinary Sciences Tripos in the regulations for the dates of Examinations and Publication of Class-lists (*Statutes and Ordinances*, p. 234) to read as follows:

Regulation 2.

Saturday before last Sunday but one in May	Medical and Veterinary Sciences Tripos, Part IB ¹
Monday before first Sunday in June	Medical and Veterinary Sciences Tripos, Part IA

Regulation 3.

Medical Sciences Tripos, Part IB² (Lent Term examination)

By amending Regulation 1(a) of the regulations for Publication of Lists of Successful Candidates in Examinations (*Statutes and Ordinances*, p. 237) so as to read:

¹ Except the *viva voce* examination in Comparative Vertebrate Biology, which shall begin on the first day of Full Easter Term.

² Examination in Head and Neck Anatomy only.

- (a) Each Examiner for any Part of the Medical Sciences Tripos or the Veterinary Sciences Tripos, or for Part IA or Part IB of the Natural Sciences Tripos, shall be present at the meeting of the Examiners at which the marks of the candidates in her or his particular subject are finally approved.

In Regulations 10(a)(i) and 23(a) of the regulations for the degree of Bachelor of Medicine and Bachelor of Surgery: Curriculum Regulations (*Statutes and Ordinances*, p. 458) (and in the footnote in those regulations that refers to the Tripos) by amending the references to the Medical and Veterinary Sciences Tripos to Medical Sciences Tripos.

In Regulations 8(a)(i) and 20(b) of the regulations for the degree of Bachelor of Veterinary Medicine (*Statutes and Ordinances*, p. 546) (and in the footnotes in those regulations that refer to the Tripos) by amending the references to the Medical and Veterinary Sciences Tripos to Veterinary Sciences Tripos.

By amending Regulation 2 of the regulations for the Marmaduke Sheild Scholarship (*Statutes and Ordinances*, p. 933) so as to read:

2. The persons eligible to the Scholarship shall be such undergraduates of not more than three years' standing from matriculation, and such Bachelors of Arts of not more than four years' standing from matriculation, as have passed or gained exemption from the Second M.B. Examination, and have also obtained honours in Part IB of the Medical Sciences Tripos with Anatomy as one of their subjects.

If the proposals are approved, the General Board has agreed to amend Rule 8 of the rules made by the General Board in accordance with Regulation 11 for the election of student members of Faculty Boards and other bodies (*Statutes and Ordinances*, p. 592) by replacing all references to the Medical and Veterinary Sciences Triposes with references to the Medical Sciences Tripos and the Veterinary Sciences Tripos.

OBITUARIES

Obituary Notice

PROFESSOR ROBERT NEVILLE HASZELDINE, M.A., Ph.D., Sc.D., C.Chem., FRSC, FRS, Honorary Fellow of Queens' College (Fellow 1954–57), Member of Sidney Sussex College, Assistant in Research in Organic Chemistry 1949–51, University Demonstrator in Organic and Inorganic Chemistry 1951–56 and Assistant Director of Research 1956–57, died on 31 October 2016, aged 91 years.

J. W. NICHOLLS, *Registry*

END OF THE OFFICIAL PART OF THE 'REPORTER'

COLLEGE NOTICES**Elections****Fitzwilliam College**

The following election has been made:

Elected to a Fellowship in Class A with effect from 1 January 2017:

Christos Genakos, B.Sc., *Athens*, M.Sc., Ph.D.,
University College London

Hughes Hall

The following election has been made:

Elected to a Fellowship in Class A with immediate effect:

Dr Jacob Stegenga, B.A., *University of Victoria*,
Canada, M.Sc., M.A., *Toronto*, Ph.D., *University of*
California, San Diego

Vacancies

Girton College: Henslow Research Fellowship 2017 (any science subject); tenure: three years from 1 October 2017; salary: £19,273 (no Ph.D.) or £20,400 (post-Ph.D.) plus research allowance; closing date: 9 January 2017 at 12 noon; further details: <http://www.girton.cam.ac.uk/vacancies>

Hughes Hall: Annual competition for non-stipendiary Research Fellows and Research Associates with a difference; any subject; tenure: three to five years; closing date: 16 January 2017 at 9 a.m.; interviews in February, appointments in March; further details: <http://www.hughes.cam.ac.uk/about-us/positions-available>

EXTERNAL NOTICES**University of Oxford**

University of Oxford: Pro-Vice-Chancellor (Development and External Affairs); closing date: 16 January 2017; further details: <https://www.ox.ac.uk/about/jobs/academic/>

Anthropology and Museum Ethnography, and All Souls College: Evans-Pritchard Lectureship, 2017–18; stipend: £3,000 plus reasonable travel expenses and other benefits; closing date: 21 April 2017; further details: <http://www.anthro.ox.ac.uk/latest/evans-pritchard-lectureship-2017-2018/further-particulars/>

Social Sciences Division: Head of the Social Sciences Division; closing date: 16 January 2017; further details: <http://www.perrettlaver.com/candidates> (ref. 2833)

Exeter College (in association with the Faculty of History): Associate Professor in Iberian History (European and Extra-European, 1450–1800); stipend: £45,562–£61,179, plus Housing Allowance; closing date: 23 January 2017 at 12 noon; further details: <http://www.exeter.ox.ac.uk/associate-professor-iberian-history-european-and-extra-european-1450-1800.html>

The Queen's College: College Career Development Fellow in French; stipend: £28,452 plus allowances; closing date: 20 January 2017 at 12 noon; further details: <http://www.queens.ox.ac.uk/vacancies>

Notices for publication in the *Reporter*, or queries concerning content, should be sent to the Editor, Cambridge University Reporter, Registry's Office, The Old Schools, Cambridge, CB2 1TN (tel. 01223 332305, email reporter.editor@admin.cam.ac.uk). Copy should be sent as early as possible in the week before publication; short notices will be accepted up to **4 p.m. on Friday** for publication the following Wednesday. Inclusion of notices is at the discretion of the Editor.

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