

## Part IB of the Engineering Tripos

### Form and Conduct of Examinations 2011–12

<u>Examination</u>	<u>No. of Questions</u>
<u>Paper 1 - Mechanics</u>	6
<u>Paper 2 - Structures</u>	6
<u>Paper 3 - Materials</u>	6
<u>Paper 4 – Thermofluid Mechanics</u> Thermofluid Mechanics	6
<u>Paper 5 - Electrical Engineering</u>	
Linear Circuits & Devices	2
Electrical Machines	3
Electromagnetic Fields & Waves	2
<u>Paper 6 - Information Engineering</u>	
Linear Systems and Control	3
Communications, and Signal and Data Analysis	3
<u>Paper 7 - Mathematical Methods</u>	
Vector Calculus	3
Linear Algebra and Probability	3
<u>Paper 8 - Selected Topics</u>	
Paper 8 is divided into eight sections.	
<i>Section A:</i> Introductory Business Economics	2
Candidates are required to answer one question only.	
<i>Sections B-H:</i>	
(B) Civil and structural engineering	3
(C) Mechanics, materials and design	3
(D) Aerothermal engineering	3
(E) Electrical engineering	3
(F) Information engineering	3
(G) Engineering for the Life Sciences	3
(H) Manufacturing, management and design	3

Candidates will be admitted to the examination room 15 minutes before the scheduled time of the examinations and will be given 10 minutes' reading time before being allowed to start writing.

For Papers 2–3: Candidates are required to answer not more than four questions, which may be taken from either section.

For Papers 1, 4, 6, 7: Candidates are required to answer not more than four questions. The questions should be from two sections only and not more than two questions should be answered from either section.

For Paper 5: Candidates are required to answer not more than four questions and must answer at least one question from each section.

For Paper 8: Candidates who are not offering a foreign language as an option are required to answer four questions, taken from only two of sections B–H. Not more than two questions from each section may be answered. Candidates who are offering a foreign language as an option are required to answer not more than two questions from one of sections B–H.

Paper 8 will be of two and a half hours' duration, or of one and a half hours' duration in the case of candidates who are offering a foreign language.