

## Chartered Membership Examination

Friday, 7 July 2017

### Structural Engineering Design and Practice

09.30 – 13.00 and 13.30 – 17.00 (Discussion between individuals is not permitted during lunch period). A period of fifteen minutes is provided for reading the question paper, immediately before the commencement of the examination. Candidates are not permitted to write in answer sheets, or on drawing paper or to use a calculator during this time. Candidates must satisfy the Examiners in ONE question.

#### Important

The written answer to the question selected and any A3 drawings must bear the candidate's number and the question number at the bottom of the page. Only the answer sheets supplied by the Institution may be used. The candidate's name should not appear anywhere in the script.

#### Notes to Candidates

1. TO PASS THE EXAMINATION, CANDIDATES MUST SATISFY THE EXAMINERS IN BOTH PARTS OF THE QUESTION ATTEMPTED.
2. Candidates should note that Figures are produced to illustrate the question and are not necessarily drawn to scale. Figured dimensions should be followed.
3. A fair proportion of marks will be awarded for the demonstration of an understanding of fundamental engineering concepts, as distinct from calculation of member forces and sizes. NOTE: In the calculation part of all questions, establishing "form and size" is taken to mean compliance with all relevant design criteria, i.e. bending, shear, deflection, etc.
4. In all questions 50 marks are allocated to Section 1 and 50 marks to Section 2.

5. The Examiners are looking for sound structural designs. It should also be remembered that aesthetics, economy and function are important in any competent engineering scheme.
6. Any assumptions made and the design data and criteria adopted must be stated.
7. Good clear drawings and sketches are required; they should show all salient and structural features to suitable scales and should incorporate adequate details.
8. Candidates will not be allowed to include any previously prepared calculations, notes, sketches, diagrams, computer output or other similar material in their answer sheets or A3 drawings. Any previously prepared information submitted by candidates will be ignored by the examiners.
9. Candidates may not bring into the examination room any electronic devices capable of wireless communication, optical photography or scanning.

The following devices are not permitted: Mobile phones, Laptops, notebooks or portable computers and similar devices, iPads, tablets and similar devices, E-readers (e.g. Kindle) and similar devices, cameras, optical scanners and similar devices.

Any candidates arriving at the examination room with such devices will be asked to switch them off and place them in a sealed bag kept by the Invigilator for the duration of the exam, which includes the lunch period.

10. This paper is set in SI Units.

**Now read 'Reminder' on page 3.**

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**M Mosston**



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*Home and Away* Peter Martin,2023-02-03 Home and Away A Civil Engineering Odyssey draws on the author s long career as an engineer responsible for many projects around the world In the memoir he highlights some of those projects with descriptions of the design processes and the construction methods used to bring the works to successful completion keeping technical detail to the minimum needed for the reader s understanding of the projects Personal reminiscences of his travels complement descriptions of life as an engineer Developments in analysis of structures during the author s working life have enabled all manner of structures to be designed to display elegance of form in a natural way without unnecessary embellishment Practising engineers understand the satisfaction to be found in designing such engineering works and seeing them built as they envisaged It is hoped the author s enthusiasm for his work as expressed in the memoir may inspire others to become the civil engineers of the future

*Structural Design of Buildings* Feng Fu,David Richardson,2024-07-12 Structural Design of Buildings Elemental Design is the essential reference for all structural engineers involved in the design of buildings and other structures The book forms part of the Structural Design of Buildings series and focuses on the introduction of building elements and materials

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Achievement ,1992      British Qualifications Kogan Page Staff,1999 Timed to coincide with the ICC Cricket World Cup 2003 in South Africa this book begins with an account of the 2003 final in Johannesburg Edward Griffiths then goes back to the beginning the genesis of the one day game with the launch of the Gillette Cup in 1963 and traces the development of the game over four decades There are some accounts of the first and subsequent Cricket World Cup tournaments which highlight the changes in the game over the years heroic performances triumphs and defeats      *Proceedings of the Institution of Civil Engineers* ,2005      **Highways and Transportation** ,1990      Directory of British Associations & Associations in Ireland ,1982      **People of Today** ,2002      *Who's who in Education* ,1974      **Past Year Exam Papers** ,2001      **ANTH2270** , Past exam papers for UQ course ANTH2270      **Six sets of matriculation exam. papers. A repr. of the papers set June, 1887-Jan., 1890** London univ, exam. papers,1890      **TEST1000** , Past exam papers for UQ course TEST1000      **JOUR3290** , Past exam papers for UQ course JOUR3290      **PLAN7901** , Past exam papers for UQ course PLAN7901      **PLAN7124** , Past exam papers for UQ course PLAN7124

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