CIVIL ENGINEERING

Paper I

Time Allowed: Three Hours

Maximum Marks: 300

QUESTION PAPER SPECIFIC INSTRUCTIONS

Flease read each of the following instructions carefully before attempting questions.

Answers must be written in ENGLISH only.

There are EIGHT questions divided in TWO Sections.

Candidate has to attempt FIVE questions in all.

Questions No. 1 and 5 are compulsory and out of the remaining, THREE are to be attempted choosing at least ONE question from each Section.

The number of marks carried by a question/part is indicated against it.

Answers must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of this Question-cum-Answer (QCA) Booklet in the space provided.

No marks will be given for answers written in a medium other than the authorized one.

Wherever any assumptions are made for answering a question, they must be clearly indicated. Diagrams/figures, wherever required, shall be drawn in the space provided for answering the question itself.

Unless otherwise mentioned, symbols and notations carry their usual standard meanings. Attempt of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

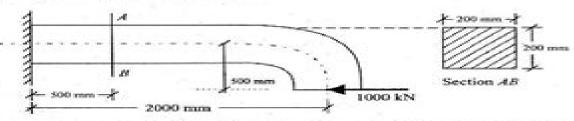
SECTION 'A'

- 1.(a) (i) List out at least eight tests required to determine the suitability of stone for engineering use. 8
 - (ii) Briefly explain the purpose and the procedure for Attrition Test on stone.
- 1.(b) A very long steel drill pipe got stuck in hard clay at an unknown depth. The drill pipe was applied a large upward force and observed that the drill pipe came out elastically by 500 mm. It was also observed that there was elongation of 0-04 mm in a gauge length of 200 mm. Estimate the depth of hard clay bed. Following consideration may be taken into account:

Resistance offered by all material/elements may be taken as zero.

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1.(c)



A bracket has been loaded as shown in figure. Compute the top and bottom fibre stress at section A-B.

Ies 20question Paper

Xiaolong Qi



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