

PHILOSOPHY TRIPOS Part IB

Monday 28 May 2007

09.00 to 12.00

Paper 2

LOGIC

Answer **three** questions only.

Write the number of the question at the beginning of each answer. If you are answering an either/or question, indicate the letter as well.

STATIONERY REQUIREMENTS

20 Page Answer Book x 1

Rough Work Pad

**You may not start to read the questions
printed on the subsequent pages of this
question paper until instructed that you
may do so by the Invigilator**

- 1 **Either** (a) What is the problem Russell was trying to solve with his theory of descriptions? Was he successful?
 Or (b) What is the problem Frege was trying to solve with his theory of sense? Was he successful?
- 2 **Either** (a) Are verbs of action variably polyadic?
 Or (b) Why does it matter what the 'logical form' of a sentence is?
- 3 **Either** (a) For which intuitive modalities is S4 a suitable logic?
 Or (b) Explain with examples a tableau ('tree') system for the modal logic S5.
- 4 Must axioms be true?
- 5 **Either** (a) 'The use of words is to be sensible marks of ideas, and the ideas they stand for are their proper and immediate signification' (LOCKE). Discuss.
 Or (b) Are the meanings of words established by convention?
- 6 In what sense, if any, must a theory of meaning take the form of a theory of truth?
- 7 Is water necessarily H₂O?
- 8 Is there any good reason to doubt that the law of the excluded middle is a law of logic?
- 9 Could there be an impossible world?
- 10 Explain the difference between referential and substitutional readings of the quantifiers.

END OF PAPER