PHILOSOPHY TRIPOS   Part IB

Friday 26 May 2017  09.00 – 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 the 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. Are definite descriptions 'incomplete' and names 'complete' in Russell's or any other sense?

2. Are any two things necessarily distinct?

3. Describe a semantics in terms of Kripke models for the modal logic KTB. Provide an axiomatization of KTB and argue that every axiom and rule is true/valid according to your semantics.

4. Explain and illustrate the notion of logical form.

5. EITHER: (a) 'The meaning of a statement consists in its method of verification.' Can the statement 'All ravens are black' be meaningful, according to this theory?
   OR: (b) Must the notion of verification be compositional?

6. State and prove the completeness of a natural deduction system for propositional logic.

7. Is there any more to understanding truth than understanding that 'p' is true iff p?

8. Is analyticity a coherent concept?

9. Is the causal theory of reference compatible with a theory of sense?

10. Does Euclidean geometry have a truth-value?

END OF PAPER