PHILOSOPHY TRIPOS   Part IB

Monday 30 May 2011   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 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   If we can explain meaning in terms of intention, what will we have achieved?

2   **Either**   *(a)*   What is the relation between meaning and truth?

    Or   *(b)*   What use would a solitary person have for language?

3   Describe and assess Frege's explanation of the role of variables in the semantics of quantified sentences.

4   What is the point of putting English sentences into logical form?

5   Describe and assess Russell's reasons for adopting his theory of descriptions.

6   Is rigidity just a matter of scope?

7   Expound a semantics for the modal logic T. Use this semantics to show that

    (a) $\vDash_T \Box A \supset A$

    (b) $\nvDash_T \Box A \supset \Box\Box A$

    (c) $\nvDash_T A \supset \Box\Diamond A$

    (d)   the rule of necessitation is valid

8   Is modal fictionalism a satisfactory explanation for our use of words like 'necessarily' and 'possibly'?

9   Are there any good reasons for preferring intuitionistic to classical logic?

10 Does consistency entail existence, either in mathematics or elsewhere?

END OF PAPER