PHILOSOPHY TRIPOS Part IB

Tuesday 27th May 2014

09.00 - 12.00

Paper 6

PHILOSOPHY OF SCIENCE

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. Does manipulation of 'theoretical entities' make realism about these entities any more justifiable?
- 2. Does science progress? If so, in terms of what does it progress?
- 3. EITHER (a) Consider the problems that plague existing theories of scientific method. Does that make it likely that there is no scientific method?
 - OR (b) What, if anything, makes science a privileged method for generating knowledge?
- 4. Is there a defensible formulation of falsificationism?
- 5. 'Bayes's theorem is nothing but a logical consequence of the definition of conditional probability, so it couldn't possibly help in solving the problems of induction.' Discuss.
- 6. Can we avoid taking evidence to confirm 'grue-like' hypotheses?
- 7. In what sense, if any, do laws of nature 'govern' phenomena?
- 8. Is there a difference between explanation and understanding?
- 9. In what sense, if any, is probability subjective?
- 10. 'Quantum Mechanics provides an incomplete description of physical reality.' Discuss.

END OF PAPER