

PHILOSOPHY TRIPOS Part IB

Monday 6 June 2005

9 to 12

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 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 How does a law of nature differ from a true exceptionless generalisation?
- 2 Why, if at all, should we be realists about theoretical entities?
- 3 Is observation always theory-laden? Does it matter if it is?
- 4 Is Goodman's 'New Riddle of Induction' soluble?
- 5 Does the observation of a yellow dog confirm the hypothesis that all ravens are black?
- 6 What, if anything, is wrong with a causal theory of explanation?
- 7 Is there any sense in which Kuhn is right to say that, after a scientific revolution, 'The world changes'?
- 8 **Either** (a) Is science just a series of conjectures and refutations?
Or (b) Is 'the methodology of scientific research programmes' a methodology?
- 9 **Either** (a) Are probabilities always credences?
Or (b) What is the relationship between frequencies and probabilities?
- 10 What is the relation between an explanation and an argument?

END OF PAPER