

PHILOSOPHY TRIPOS Part II

Monday 26th 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.

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 substantivalism about space contravene Ockham's razor? Does substantivalism about spacetime contravene it?
2. 'The experimental success of quantum mechanics means that we must abandon the claim that particles have definite spatiotemporal trajectories.' Discuss.
3. Is there any way to account for EPR correlations that is compatible with the special theory of relativity?
4. What, if anything, distinguishes laws in physics from laws in biology?
5. What is the relationship between the biological function of an organ and its evolutionary history?
6. Are there natural kinds in the social sciences?
7. Outline Savage's version of classical decision theory. Is it acceptable as a descriptive theory?
8. Explain Nash equilibrium. What is it good for?
9. 'Explanatory value is mostly an objective matter.' Discuss.
10. 'Explanations that cite probabilities are an inferior species of explanation.' Discuss.

END OF PAPER