



University College Dublin
An Coláiste Ollscoile, Baile Átha Cliath

MIDTERM EXAMINATION - 2013/2014 (Paper 1)

INTRODUCTION TO COGNITIVE SCIENCE

COMP 20090

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Time allowed: 45 mins

Instructions for Candidates:

Answer 7 of the 10 questions. Keep your answers short. Two or three sentences (maximum half a page) per question should suffice. If you answer more than 7 questions, please indicate which 7 should be graded. Otherwise, the first 7 questions only will be graded.

All questions carry equal marks.

- Q1:** Describe Classical Conditioning (Pavlov) and Operant Conditioning (Skinner). Make the difference between them clear.
- Q2:** What is the difference between the disciplines of Phonology and Phonetics?
- Q3:** What are the two principal roles language plays in human affairs?
- Q4:** What is the brain-in-a-vat thought experiment?
- Q5:** Psychophysics attempts to capture the lawful relation between measurable physical quantities and perceived properties. Provide one example of such a mapping.
- Q6:** Roman numerals and Arabic numerals both represent the same information. Discuss the difference between the two forms of representation.
- Q7:** Illustrate, using an example from lectures, how language can allow you to do things you would not otherwise be able to do.
- Q8:** In Vygotsky's view, what is the relationship between language and thought in young children?
- Q9:** Distinguish between altricial and precocial skill sets.
- Q10:** The Thatcher effect illustrates a remarkable aspect of our perception of faces. What is the Thatcher effect?