

Ollscoil na hEireann, Gaillimh
NATIONAL UNIVERSITY OF IRELAND, GALWAY

SECOND ARTS PSYCHOLOGY AND VISITING STUDENTS
SEMESTER 1 EXAMINATION 2003-2004

PS217 Cognitive Psychology (5 ECTS)

Time allowed: Two hours

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Professor Jack E. James
Dr. Michael Hogan
Dr. Brian Hughes
Ms. Anne Marie Keane
Dr. Ian Stewart
Mr. Ian Tyndall

Candidates are requested to answer *two* of the following questions.

1. Referring to empirical evidence, trace the development of the models that have been put forward to account for human attention performance from early selection theory through to capacity theory approaches.
2. The information-processing models of face recognition proposed by Bruce & Young (1986) and Burton & Bruce (1993) have been the focus of much of the research in this domain. Evaluate both models, referring specifically to their major differences and to their ability to account for research findings.
3. "Ascriptions of mentality to currently existing machines must be treated as pure metaphor" (Coleman, 1993). However, in the future, could we find ourselves applying cognitive descriptors to the actions of computers, or is the application of such terms to machines inescapably metaphorical? (In other words, can a machine think?).
4. "Despite the problem of stating clearly what it means for imagistic thought to be pictorial, claims that mental images have a special picture-like (or depictive) format have persisted." Zenon Pylyshyn (2003). Critically examine the arguments for and against the position that mental imagery utilizes a system of mental representation that is distinct from a propositional or descriptive system.
5. What evidence is there that derived relational responding is closely related to human language? Describe at least one example of research that has modelled an important aspect of language using derived relational responding.