

OLLSCOIL NA hÉIREANN, GAILLIMH
THE NATIONAL UNIVERSITY OF IRELAND, GALWAY

SEMESTER II, JANUARY 2001 EXAMINATION

MASTERS DEGREE IN INFORMATION TECHNOLOGY AT THE IMI

PS502: COGNITIVE PSYCHOLOGY

Professor Noel Sheehy
Professor Jack James
Dr Padraig MacNeela

Time Allowed: 3 hours

Answer **three** questions
(All questions carry equal marks)

- (1) Within the framework of a systems approach, outline the contribution of the 'human element' to the occurrence of accidents. (100%)
- (2) Write notes on **two** of the following topics:
 - (a) The production of language
 - (b) Attribution theory
 - (c) The development of automaticity in the performance of a task
 - (d) The issues involved in replicating facets of natural intelligence in artificial intelligence programs
- (3) Discuss the psychometric approach to studying intelligence. (100%)
- (4) Compare and contrast the cognitive framework for studying human psychology with **one** of the following alternative approaches:
 - (a) psychodynamics, or
 - (b) behaviourism. (100%)
- (5) (a) Outline the stage model of memory as set out by Atkinson & Shiffrin (1968) and elaborated by subsequent researchers, **AND** (80%)
Does the stage model of memory provide an adequate framework for studying memory? (20%)
OR
(b) Write an essay on the categorisation and representation of knowledge based on an analysis of **one** of the following approaches: (i) schema theory, (ii) connectionism, or (iii) associative network models. (100%)