

Ollscoil na hÉireann, Gaillimh
National University of Ireland, Galway
Semester One Examinations 2001/02
Third year Commerce Examination

Systems Analysis I (MS302)

Professor B. O'Keefe

Professor S. Collins

Ms. M. Hogan

Time allowed: TWO hours

Candidates should answer *THREE* questions

All questions carry EQUAL marks

Q.1. Describe the main phases involved in a typical systems development project. You should also discuss alternative routes and methods through the phases.

(33 marks)

Q.2. Describe the main techniques used to gather requirements for a systems development project.

(33 marks)

Q.3. Describe, using examples, the following process specification techniques:

- Data Flow Diagrams
- Decision Tables
- Structured English

(33 marks)

Q.4. Describe the following approaches to Systems Design:

- Model-Driven Approaches (you should describe the different model-driven approaches)
- Rapid Application Development

(33 marks)

(cont'd)

Q.5. FastSales Ltd. is an estate agents that operates in the Galway area.

The estate agent holds many listings, each of which consists of a property. The property may contain one or more houses, each of which has a number of rooms.

Each agent in the company is responsible for a number of listings. Showings are held for each listing. Each listing is available for a closing (an agreement to sell). Each property is owned by a seller. Buyers make offers on individual properties.

You are required to draw the Entity Relationship Diagram for the system described above. Specify all entities, relationships and cardinalities. You are also to suggest attributes for each entity and to specify the primary keys.

(33 marks)