

**GGY 283**  
**Introductory GIS**  
**SECOND SEMESTER TEST**

7 May 2009

Time 50 min

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**1 Data Acquisition**

- 1.1 Discuss digital data as a source of data for the use in a GIS (5)
- 1.2 Discuss the following data encoding methods. Also refer to the quality of the data sets when using the different encoding methods
- (a) Digitising
  - (b) Scanning
  - (c) Manual Data Encoding
- (12)
- 1.3 Which correcting method will you use if:
- (a) The study area is located over more than one map sheet and you need to make the edges meet
  - (b) An image does not fit on the study area
  - (c) You want to see a broader brush picture of the study area
  - (d) There are still some minor discrepancies between different layers due to differences in source documents or digitising.
- (4)

**2 Data Analysis**

- 2.1 Name and define the different analysis methods that can be used to analyse data. Give a practical example of when you will use each analysis method. (24)
- 2.2 Explain what an analysis model is and name the steps that you will follow to develop an analysis model (5)

Total 50