

SGG 4653 (Advance Database System)

Test #01 (10%)

Answer ALL questions.

Question 1:

- (a) Identify the benefits of using RDBMS? [3 marks]
- (b) Discuss why choosing a unique key for Primary Key is important during database design. Please provide suitable examples. [3 marks]
- (c) Based on the original Kelantan_stats.dbf data (in Lab exercise), can you solve the table's normalization? Please show some example tables that have been normalized. [4 marks]

Question 2:

- (a) Describe some advantages of using RDMS approach for spatial database. [2 marks]
- (b) Please compare and analyze the usage of a semi-structured database with a standard DBMS (ESRI shapefiles) for a web-GIS application in weather forecasting. [5 marks]
- (c) Explain why GIS will be much benefited in Object-Relational Database Management System (ORDBMS) design? Please provide with some appropriate examples. [3 marks]

GOOD LUCK.