

UNIVERSITY EXAMINATIONS: 2013/2014 EXAMINATION FOR THE MASTER OF SCIENCE IN INFORMATION SYSTEMS MANAGEMENT

MISM 5203 DECISION SUPPORT SYSTEMS

DATE: AUGUST, 2014 TIME: 2 HOURS

INSTRUCTIONS: Answer Question One and Any Other Two Questions

QUESTION ONE: [20 Marks]

- (i) What is an influence (casual loop) diagram? Discuss its role in building a decision support system. (6 Marks)
- (ii) What are the strengths and drawbacks of influence diagrams as a problem structuring technique in developing a decision support system? (8 Marks)
- (iii) Give examples of problem structuring techniques used in developing decision support systems.

(6 Marks)

QUESTION TWO: (15 MARKS)

- (i) Define what is a decision support system. Discuss the impact such a system would have on a decision-making effectiveness. (5 Marks)
- (ii) What are the different phases of the decision-making process a decision maker has to adopt using a decision support system? (5 Marks)
- (iii) What are the different types of decision support systems in use? (5 Marks)

QUESTION THREE: (15 MARKS)

A Decision Support System has potential to support the formulation, analysis and interpretation of business problems. From the current literature, describe how these issues relate to model-based decision support systems.

(15 Marks)

QUESTION FOUR: (15 MARKS)

What would be the desirable features of a suitable graphical user interface (GUI) to support an effective decision-making process in organisations using specific decision support systems? Illustrate your case with diagrams.

(15 Marks)