



**UNIVERSITY EXAMINATIONS: 2013/2014**

**EXAMINATION FOR THE MASTER OF SCIENCE IN INFORMATION  
SYSTEMS MANAGEMENT/ADVANCED DATABASE AND VISUAL  
ANALYTICS**

**MISM 5101 E-BUSINESS ARCHITECTURE & SYSTEMS**

**DATE: AUGUST, 2014**

**TIME: 2 HOURS**

---

**INSTRUCTIONS: Answer Question One and Any Other Two Questions**

---

**QUESTION ONE: [20 Marks]**

- a) E-commerce technology is characterized by features that make it a popular (or a supposedly popular) technology.
- (i) Describe the eight (8) features of e-commerce technology. [8 Marks]
- (ii) Discuss the impact of e-commerce technology on the business environment under the following sub headings:
- Industry value chains
  - Business strategy [6 Marks]
- (b) E-business can be viewed under three (3) organizational themes: business, society and technology. Discuss. [6 Marks]

**QUESTION TWO [15 MARKS]**

- (a) Discuss the suitability of the distributed enterprise architecture in realizing e-business solutions such as supply chain management systems. [3 Marks]
- (b) Describe the major types of attacks against e-business systems. [6 Marks]
- (c) Describe the measures available to protect buyers and sellers on the Internet. [6 Marks]

### **QUESTION THREE [15 MARKS]**

- a) Describe the key ingredients of a business model. [4 Marks]
- b) State and explain any two e-commerce business models. [3 Marks]
- c) Explain how Web services can be used to realize the business models in b) above. [4 Marks]
- d) Describe the main elements of an information architecture. [4 Marks]

### **QUESTION FOUR [15 MARKS]**

- (a) With the aid of a diagrammatic illustration, discuss the components of the e-commerce process architecture. [7 Marks]
- (b) Describe the suitability of each of the following in realizing the architecture in a) above:
  - i). J2EE Framework
  - ii). E-Business suites [8 Marks]