



EASTERN UNIVERSITY, SRI LANKA

DEPARTMENT OF MATHEMATICS

FIRST EXAMINATION IN SCIENCE - 2016/2017

FIRST SEMESTER (AUG./SEP., 2018)

CS 1021 - INTRODUCTION TO INFORMATION SYSTEMS

Answer all questions

Time Allowed: One hour

1. (a) What is an *Information System*? [10 Marks]
- (b) What is a *computer-based information system* and their components? [15 Marks]
- (c) Briefly explain the five characteristics of valuable information. [20 Marks]
- (d) Briefly explain the following terms in Information System:
- i. Data Warehouses;
 - ii. Data Marts;
 - iii. Data Mining. [15 Marks]
- (e) Write the short notes for the following Information Systems:
- i. Business Information System (BIS);
 - ii. Management Information System (MIS);
 - iii. Learning Information System (LIS);
 - iv. Geographic Information System (GIS). [40 Marks]

2. (a) Explain the role of Information Systems in an Organisation. [20 M]
- (b) What are some general strategies employed by organizations to achieve competitive advantage? [15 M]
- (c) Describe the *Porter's five forces model* in Information System. [20 M]
- (d) Explain the *value chain strategy* with the aid of an example. [20 M]
- (e) List five characteristics of a *Decision Support System (DSS)*. [15 M]
- (f) Identify two ethical and social issues in Information Systems. [10 M]

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