



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

**A. M. E. C. E. A**

**MAIN EXAMINATION**

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**JANUARY – APRIL 2014 TRIMESTER**

**FACULTY OF SCIENCE**

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**

**EVENING PROGRAMME**

**DLIS 117: AUTOMATION OF LIBRARIES AND INFORMATION PROCESS**

**Date: APRIL 2014**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions**

- Q1. a) Identify **FOUR** major technological, steps that necessitated the development of library and information centres automation. **(4 marks)**
- b) Identify **THREE** advantages and **THREE** disadvantages of Library Automation. **(6 marks)**
- c) Explain the **FOUR** main advantages of RFID over Barcodes in Library Automation. **(8 marks)**
- d) Explain how automation has revolutionized the quality of library circulation services? **(4 marks)**
- e) Using examples differentiate between Open Source LMS, Proprietary (Off the Shelf) LMS, In-house developed LMS Co-operative/consortium developed LMS. **(8 marks)**
- Q2. a) Describe the steps to consider before the commencement of writing the proposal for Library automation. **(4 marks)**

- b) Define the term feasibility study. What types of feasibility can you apply to Library management software? **(8 marks)**
- c) Describe the main steps for the system and vendor selection that you apply in library automation. **(8 marks)**
- Q3. a) Differentiate between corrective, adaptive, perfective and preventive maintenance in library automation. **(8 marks)**
- b) Describe the **FOUR** main elements that must be included in the software acquisition and implementation Service Level Agreement (SLA). **(8 marks)**
- c) Describe at least **TWO** factors to consider in data conversion and migration process. **(4 marks)**
- Q4. a) Differentiate between detailed design and system design in library automation. **(4 marks)**
- b) Giving the advantages and disadvantages, discuss the **FOUR** strategies used in the implementation of Library Management System (LMS). **(8 marks)**
- c) Discuss the impact of integration of social network tools and web 2.0 to modern libraries. **(4 marks)**
- d) Discuss the human impact of library automation. **(4 marks)**

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