

#### **KIBABII UNIVERSITY COLLEGE**

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# UNIVERSITY REGULAR EXAMINATIONS 2013/2014 ACADEMIC YEAR 2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER EXAMINATIONS (MAIN EXAMINATION) BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

# **COURSE CODE: ICT 710**

# COURSE TITLE: SYSTEM ANALYSIS AND DESIGN

**DATE:** 25<sup>th</sup> APRIL,2014

**TIME:** 2:00P.M. – 5:00P.M.

## **INSTRUCTIONS TO CANDIDATES:**

Attempt question ONE (1) and ANY TWO (2) other questions from section B.

#### **Question One**

- a) Differentiate between traditional system development and structured system development methods (6mks)
- b) Discuss six types of information systems (18mks)
- c) Why do you think it is necessary as a system developer to analyze and design systems before coding process starts? (6mks)

#### **Question Two**

- a) Differentiate between Waterfall model and Rapid development model (6mks)
- b) Discuss the steps in system development life cycle (SDLC) (14mks)

### **Question Three**

- a) What is system requirement in system analysis and design? (4mks)
- b) State and explain the types of feasibility studies (6mks)
- c) Discuss the different types of system changeover (10mks)

#### **Question Four**

- a) Discuss at least three information system development approaches you know.(12mks)
- b) In what environment would you apply the prototype model and why? (8mks)

## **Question Five**

- a) What is the importance of documentation in system analysis and design? (10mks)
- b) Differentiate the following types of maintenance (10mks)