



ALUPE UNIVERSITY
COLLEGE

Bastion of Knowledge...

P. O. Box 845-50400 Busia(K)
principal@auc.ac.ke
Tel: +254 741 217 185
+254 736 044 469
off Busia-Malaba road

OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS

2017 /2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER REGULA REXAMINATION

**FOR THE DEGREE OF BACHELOR OF
EDUCATION**



COURSE CODE: TED 102

**COURSE TITLE: COMPUTERS AND MANAGEMENT
OF INFORMATION IN EDUCATION**

DATE: 25TH APRIL, 2018

TIME: 9 AM – 12 PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

TED 102: COMPUTERS AND MANAGEMENT OF INFORMATION IN EDUCATION
DURATION: 3 HOURS

INSTRUCTIONS TO CANDIDATES

- i. Answer Question **ONE** and any other **TWO** questions
- ii. Question **ONE** carries 30 marks
- iii. Do not write on the question paper

Question One (Compulsory)

- a) Explain the definition of an Education Management Information System (2 Marks)
- b) Using an example, state how a high-level manager, such as a Managing Director, could use MIS (4Marks)
- c) Identify the three main categories of information systems in relation to the groups they serve and the functional areas in which they operate (6Marks)
- d) Describe four major types of information systems, and give at least two information outputs to be expected from each one. (8Marks)
- e) To be effective, an information system requires input from disciplines beyond the simply technical. Discuss the influence of at least three of these disciplines on the creation and maintenance of an effective information system. (6Marks)
- f) Describe and discuss the four stages of decision making in organizations. How does each relate to the use of information systems? (4Marks)

Question Two

Various Information systems have been developed over recent years in the following categories.

- i. Operational level
- ii. Middle management level
- iii. Strategic management level

Requirement:

- a) Define and distinguish between each of these systems. (12Marks)
- b) Elaborate the essential features of system definition (8Marks)

Question Three

a) Information systems frequently rely upon large and complex databases.

Required:

- i. a) Explain, briefly, what the term 'database' means? (2 Marks)
- ii. b) Describe the components of a database management system (DBMS)? (10 Marks)
- iii. c) What is the difference between a relational and a hierarchical database? (8 Marks)

Question Four

- a) Explain the difference between primary and secondary storage (2 Marks)
- b) Explain the features of software and hardware as used information technology (IT) hardware and software (6Marks)
- c) What is a knowledge management system? Provide three examples. (4Marks)
- d) What are software packages? List and describe at least three types of PC software packages, other than word processing and spreadsheets, used in modern business. (8Marks)

Question Five

- a) What are the five areas a corporate code of ethics should address? Give at least three examples of items that must be covered in each area. (5Marks)
- b) Identify the five step process for analyzing an ethical issue. (5Marks)
- c) Give the five advantages and five disadvantages of using computers in a school (10Marks)

