

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF EDUCATION ARTS**

**HRIM 171: COMPUTER APPLICATIONS FOR HEALTH INFORMATION
MANAGEMENT I**

STREAMS: BSC (HEALTH RECORDS)

TIME: 2 HOURS

DAY/DATE: TUESDAY 14/04/2020

2.30 PM – 4.30 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions.

QUESTION ONE { 30 MARKS }.

- a) Describe the concept of computer processing hardware, detailing the functionalities of its main components. [7 marks]
- b) Explain four characteristics of a modern database management system. [8 marks]
- c) Discuss the computer categories according to their functionality. [6 marks]
- d) Outline the steps followed when copying files using windows explorer. [5marks]
- e) state two advantages and two disadvantages of the data base storage systems. [4 marks]

QUESTION TWO {20 MARKS}.

- a) With an aid of a diagram discuss the three - tier architecture of database management system. [12marks]
- b) State and explain **four** different types of computer registers. [4marks]

- c) Distinguish between Database Schema and Database instance, hence explain the two types of database schema as used in database management system: [4 marks]

QUESTION THREE { 20 MARKS }

- a) Describe the main features of SPSS and Stata statistical packages. [10marks]
- b) Explain the term spreadsheet and discuss three basic data types used in the spreadsheets. [10 marks]

QUESTION FOUR { 20 MARKS }

- a) Distinguish between analytic and operational data bases and state three functions of tools of a data base program. [7marks]
- b) Outline the steps and conditions followed when developing a good database design. [7 marks]
- c) List and explain any three types of web browsers. [6marks].

QUESTION FIVE { 20 MARKS }

- a) Explain the following types of communication networks. [6marks]
- i LAN
 - ii WAN
 - iii MAN
- b) Contrast wired communication channels against wireless communication channels. [10 marks]
- c) State four components of a typical communication network. [4marks]
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