CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATION
RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF HEALTH RECORDS MANAGEMENT

HRIM 171: COMPUTER APPLICATIONS FOR HEALTH INFORMATION MANAGEMENT I

STREAMS: **TIME: 2 HOURS**

DAY/DATE: TUESDAY 02/11/2021   **11.30 A.M - 1.30 A.M.**

INSTRUCTION:

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.   [12 marks]

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.   [10 marks]

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.   [7 marks]

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.   [6 marks]

QUESTION FIVE {20 MARKS}

a) Explain the following types of communication networks.   [6 marks]
   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.   [4 Marks]

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