**CHUKA**                                    **UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD DEGREE OF**
**BACHELOR OF SCIENCE IN INFORMATION SCIENCE**

**BSIS 381:     RESEARCH METHODS**

**STREAMS:  BSC (IS)**                                              **TIME:  2 HOURS**

**DAY/DATE:  THURSDAY 9/04/2020**                              **2.30 P.M - 4.30 P.M.**

**INSTRUCTIONS**
- Answer Question One and any other Two Questions.
- Do not write anything on this Question paper

**QUESTION ONE     [30 MARKS]**
i) Discuss the significance of research in modern times.                    [10 Marks]

ii) Briefly describe the different steps involved in a research process.        [10 Marks]

iii) "The task of defining the research problem often follows a sequential pattern".  Explain.
                                                                              [10 Marks]

**QUESTION TWO    [20 MARKS]**
The Kenyan prison system does not have sufficient capacity for the number of prisoners it holds, resulting in severe overcrowding of prisons throughout the country.  Many detainees are held on remand beyond statutory periods.  According to Adrew (2010), compiling an accurate register of prisoners is an essential first step to maintain security and control in the prison.  The manual system used keeps all about the prisoners in files.  Prisoners are separated according to categories such as long term convicts, women, children, Asian and Europeans.  A cell for specific punishment and death row is also separate from the regular prison population.  Unfortunately, because the allocation process is done manually,, t takes a lot of time to retrieve data and locate inmates in prisons.  This calls for research on this matter and developing an automated system

that will manage how information about inmates in Kenya prisons is kept, stored and retrieved to ease location of inmates in prisons.

    a)   Identify possible title of the research                      [2 Marks]

    b)  In brief, outline likely problem in this study.              [4 Marks]

    c)  Suggest four possible objectives of this study.             [4 Marks]

    d)  Suggest four possible research questions of this study.        [4 Marks]

    e)  State the purpose of study.                             [2 Marks]

    f)  State and explain the importance of the findings of the study.    [4 Marks]

## QUESTION THREE                [20 MARKS]

    i)      Explain the meaning and significance of a Research design.     [10 Marks]

    ii)     Under what circumstances stratified random sampling design is considered appropriate ? How would you select such sample? Explain by means of an example.
                                                            [10 Marks]

## QUESTION FOUR   [20 MARKS]

    i)      Examine the merits and limitations of the observation method in collecting material and illustrate your answer with suitable examples.     [10 Marks]

    ii)     " Processing of data implies editing, coding, classification and tabulation".  Describe in brief these four operations pointing out the significance of each in context of the research study.     [10 Marks]

## QUESTION FIVE     [20 MARKS]
Examine the impact of research in realization of vision (2030) in Kenya.