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(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY REGULAR EXAMINATIONS

2023/2024 ACADEMIC YEAR

SECOND YEAR 2ND SEMESTER EXAMINATIONS

BACHELOR OF SCIENCE IN

COMPUTER SCIENCE, INFORMATION TECHNOLOGY AND KNOWLEDGE MANAGEMENT

COURSE CODE: BCS 222/BIT 223

COURSE TITLE: RESEARCH METHODS & REPORT WRITING

DATE: FRIDAY 19TH APRIL, 2024   **TIME:** 8:00AM - 10:00AM

INSTRUCTIONS TO CANDIDATES

Answer Question **ONE (1)** and Any **OTHER 2** questions
Ensure your answers/ideas are clearly expressed
All your answers must be clearly numbered
Write in ink. Rough work can be done (in answer booklet) in pencil and will not be marked. Cross out any rough work.
Calculators, phones, tablets, computers not allowed

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 04 Printed Pages, including cover page. Please Turn Over.

QUESTION ONE   [COMPULSORY]   30 MARKS

Using a suitable research topic construct;
- a) a research problem statement,   (2 marks)
- b) three research questions,   (6 marks)
- c) Main objective and specific objectives   (6 marks)
- d) an abstract for your proposal   (6 marks)
- e) Differentiate between primary and secondary data as they are applied in research.   (4 Marks)
- f) Explain the different sources of secondary data and the precautions in using secondary data.   (6 Marks)

QUESTION TWO   20 MARKS

- a) Explain the meaning of the term conceptual framework as applied in a research proposal   (4 marks)
- b) Describe the purposes of literature review in research and enumerate the key contents   (10 marks)
- c) Briefly explain what research is and why it is done   (6 Marks)

QUESTION THREE 20 MARKS

- a) Compare and contrast longitudinal and cross sectional study in research   (6 marks)
- b) Explain research theory and its applicability in research   (6 Marks)
- c) Identify the FOUR main characteristics of a good research and briefly explain each of the four characteristics   (8 Marks)

QUESTION FOUR 20 MARKS

- a) Identify the TWO research approaches and briefly discuss each.   (5 Marks)
- b) Discuss the term triangulation as applied in research and how it is achieved.   (6 Marks)
- c) Identify any three research instruments and briefly discuss each   (9 Marks)

QUESTION FIVE 20 MARKS

- a) Discuss how validity and reliability may affect the outcome of any research.   (7 marks)
- b) Research design is a critical component of any good research. Discuss.   (7 Marks)
- c) Explain how the issue of population and sampling is addressed research.   (6 Marks)