



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**MAIN CAMPUS
UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER
EXAMINATIONS
FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN COSMETOLOGY**

COURSE CODE: TCO 390

COURSE TITLE: RESEARCH METHODS

DATE: 14/04/2023

TIME: 12.00-2.00 PM

INSTRUCTIONS TO CANDIDATES

Answer all questions

QUESTION ONE (19 MARKS)

Read the following abstract and answer the question below.

- a. Alopecia affects both males and females and can cause significant psychological distress. *Ageratum conyzoides*, traditionally used to treat a multitude of conditions including skin disorders, gastrointestinal problems, headache and pneumonia, has been also found to have good efficacy in increasing hair growth and decreasing hair loss. Importantly, its good safety profile makes it advantageous over the current drug treatments for hair loss; Finasteride and Minoxidil, both of which are associated with adverse effects.
- i. From the above information, Identify a research topic and briefly illustrate the following: **(10 marks)**
 - ii. The significance of the study
 - iii. One general objective and two specific objectives of the study
 - iv. Null and alternative hypothesis of the research
 - v. List and explain **TWO** most appropriate research instruments that can be used in your research **(4 marks)**
 - vi. State **FIVE** ways that you can use to get literature information for your research **(5 marks)**

QUESTION TWO (20 MARKS)

- a. What is the difference between qualitative and quantitative research? Include mention of possible differences in purpose, method, data sources, and data analysis. **(5 marks)**
- b. Write the essential elements required in a Method Section for an intervention research study. **(5 marks)**
- c. List and describe each step in the Human Subjects review process **(5 marks)**
- d. Describe procedures for optimal item construction in survey research, and procedures for obtaining a high response rate. **(3 marks)**
- e. Describe the similarities and differences among grounded theory designs, ethnographic designs, and narrative designs. **(2 marks)**

QUESTION THREE ((16 MARKS))

- a. Explain **THREE** advantages and Disadvantages of sampling during data collection **(10 marks)**
- b. Discuss the **TWO** main sampling technique **(4 marks)**
- c. Outline **TWO** situations when large samples may be required **(2 marks)**

QUESTION FOUR (15 MARKS)

- a. Explain **FIVE** reasons why research is important **(5 marks)**
- b. Outline the research process **(5 marks)**
- c. **FIVE** components of an introduction section of a research report **(5 marks)**