



**MASINDE MULIRO UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

(MMUST)

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER EXAMINATIONS

MAIN EXAM

FOR

**THE BACHELOR OF EDUCATION DEGREE
(SPECIAL NEEDS EDUCATION)**

COURSE CODE: SNE 412 E

**COURSE TITLE: INTRODUCTION TO AUDIOLOGY AND ELECTRO
ACOUSTICS**

DATE: 4TH DEC. 2023

TIME: 3:00 – 5:00 PM

INSTRUCTIONS TO CANDIDATES

Answer question ONE and any other TWO

MMUST observes ZERO tolerance to examination cheating

QUESTION ONE

a, Explain the following concepts

i, Audiology

ii, Educational Audiologist

iii, A hearing Aids

iv, Ear mould

(8 MARKS)

b. Describe the first four steps process involved in how a Hearing Aids work. **(8 MARKS)**

c, Hearing tests play a very important role in the diagnoses of hearing impairments among people who have lost hearing. Explain 4 different hearing tests carried out for different age groups of people. **(8 MARKS)**

d, Explain four different types of Hearing Aids **(4 MARKS)**

e, Differentiate between screening test and diagnostic test **(2 MARKS)**

QUESTION TWO

a, Using relevant examples illustrate how an audiogram is interpreted. **(7 MARKS)**

b, Analyse procedures and methods that are used for amplifications in a classroom situation **(13 MARKS)**

QUESTION THREE

With illustrations describe how digital signals are processed in modern Hearing Aids **(20 MARKS)**

QUESTION FOUR

a, Explain the main characteristics of a Hearing Aids receiver **(7 MARKS)**

b, Examine the responsibilities of schools and teachers regarding hearing impaired learners and Hearing Aids in an inclusive setting **(13 MARKS)**

QUESTION FIVE

a, Describe how sound travels from the source to the hearing center in the brain of a human being **(12 MARKS)**

b, Explain how Hearing Aids are maintained **(8 MARKS)**

