



*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF**

**SCIENCE AND TECHNOLOGY**

**(MMUST)**

**MAIN EXAMINATION MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS**

**2021/2022 ACADEMIC YEAR**

**3<sup>RD</sup> YEAR, 2<sup>ND</sup> SEMESTER EXAMINATIONS**

**MAIN EXAM**

**FOR**

**THE BACHELOR OF EDUCATION DEGREE**

**(SPECIAL NEEDS EDUCATION)**

**COURSE CODE : SNE 312E**

**COURSE TITLE : BIOMEDICAL ASPECTS OF SPEECH-HEARING**

**PATHOLOGY**

**DATE: 20/04/2022**

**TIME: 8:00 – 10:00 AM**

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**INSTRUCTIONS TO CANDIDATES**

Answer question ONE and any other TWO questions

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

### QUESTION ONE

- a) Identify FOUR (4) processes that are involved in the production of Speech Sounds. (4 marks)
- b) Define Audition as a way of hearing. (2 marks)
- c) Describe human vocal apparatus that are key to speech production. (8 marks)
- d) Analyze the composition of the following three areas of Speech Apparatus.
  - i) Supralaryngeal system (2 marks)
  - ii) Laryngeal system (2 marks)
  - iii) Respiratory system (2 marks)
- e) Describe THREE (3) types of Speech Disorders that lead to communication problems. (6 marks)
- f) Identify THREE (3) organs that are very important in Language and Speech communication. (6 marks)

### QUESTION TWO

Citing relevant examples, explain FIVE (5) categories of disabilities that coexist with communication, language and speech problems. (20 marks)

### QUESTION THREE

Describe the procedures involved in the assessment of Speech and Language Disorders. (20 marks)

### QUESTION FOUR

- a) With relevant examples, explain how THREE (3) types of Hearing Disorders affect the learning process. (12 marks)
- b) Citing examples, Analyze TWO (2) Speech Language Pathology Instrumentation used in the management of communication disorders. (8 marks)

### QUESTION FIVE

- a) Describe how Cerebral Palsy and Cleft Cavity interfere with the Speech of Human beings. (10 marks)
- b) Analyze the treatment procedures that may help in the improvement of speech disorder associated with Dementia. (10 marks)