



MACHAKOS UNIVERSITY

University Examinations for 2023/2024 Academic Year

SCHOOL OF EDUCATION

DERPARTMENT OF EDUCATIONAL PSYCHOLOGY AND SNE

FOURTH YEAR, SEPTEMBER/DECEMBER SEMESTER 2023/2024 EXAMINATION

FOR BACHELOR OF EDUCATION (SPECIAL NEEDS EDUCATION)

ESN 455: AUDIOLOGY AND ELECTROACOUSTICS

DATE : _____ **TIME :** _____

INSTRUCTIONS: Answer Question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30MARKS)

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| a) | Discuss the auditory system using specific examples. | (3marks) |
| b) | Explain the importance of wax in the ear canal | (4marks) |
| c) | Discuss acoustic feedback of a hearing aid | (2marks) |
| d) | Explain the function of a ear mould in a hearing aid. | (4marks) |
| e) | Identify four sources of sound that can destruct learning on your school. | (2marks) |
| f) | Explain the function of a ear mould in a hearing aid. | (4marks) |
| g) | Identify four sources of sound that can destruct learning on your school. | (2marks) |
| h) | Explain the main function of a microphone in a hearing aid | (5marks) |
| i) | Describe the role of audiology in human growth and development. | (4marks) |

QUESTION TWO (20MARKS)

Explain how a cochlea implant functions giving specific significance to a hearing- impaired learner.

QUESTION THREE (20MARKS)

Discuss eight types of individual hearing aids giving specific examples.

QUESTION FOUR (20MARKS)

Discuss eight types of individual hearing aids giving specific examples.

QUESTION FIVE (20MARKS)

Discuss how conduction of sound takes place through the ear using specific illustration.