



MACHAKOS UNIVERSITY

University Examinations 2022/2023 academic year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND SNE

FOURTH YEAR SECOND SEMESTER 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) (30 MARKS)

- a) Discuss six branches of auditory (6 marks)
- b) Explain using relevant examples speech perception to a learner with hearing Impairment. (4 marks)
- c) Discuss the significance of a hearing screening program within the school. (2 marks)
- d) Identify five sources of sound that can destruct learning in your school. (5 marks)
- e) Explain why the sense of hearing is critical to children. (2 marks)
- f) Discuss the role of audiology in human growth and development. (4 marks)
- g) Discuss the auditory system using specific examples. (5 marks)
- h) Explain the rationale of speech audiometric test. (2 marks)
- i) Describe the hearing test procedures for a learner with hearing impairment. (2 marks)

QUESTION TWO (20 MARKS)

Explain how hearing loss affects speech intelligibility (20 marks)

QUESTION THREE (20MARKS)

Discuss considerations that should be made in choosing an individual hearing aid for a learner with hearing impairment. (20 marks)

QUESTION FOUR (20MARKS)

Discuss eight types of individual hearing aids giving specific illustrations (20 marks)

QUESTION FIVE (20MARKS)

Explain how a cochlea implant functions giving specific significance to a hearing-impaired learner. (20 marks)