



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF EDUCATION, HUMANITIES AND SOCIAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
(SNE) WITH IT
4TH YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR
MAIN CAMPUS SPECIAL RESITS/EXAMINATION

COURSE CODE: ESE 411

COURSE TITLE: INTRODUCTION TO AUDIOLOGY

EXAM VENUE: STREAM: (BED SNE)

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 questions**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

Question One

- a) Define the following terms:
 - i) Audiologist
 - ii) Decibel
 - iii) Reverberation of sound (6 marks)
- b) State any two causes of hearing impairment in the external auditory canal (2 marks)
- c) Draw a diagram to show
 - i) A “soft high frequency sound”
 - ii) A “loud low frequency sound”
 - iii) A “soft mid-pitched sound” (6 marks)
- d) A student of audiology explained that pitch and intensity of sound mean “the same thing”
Accept or disagree with the statement. (2 marks)
- e) If 0 is the source of sound, which property of sound does the diagram indicate (2 marks)
- f) List any four branches of audiology (2 marks)
- g) State any two types of hearing loss that an audiologist comes up with according to the site of lesion. (4 marks)
- h) (i) Differentiate between “sound spill-over and masking” during assessment of hearing. (4 marks)
ii) Explain how an audiologist guards against the effect of environmental sound during assessment of hearing. (2 marks)

Question Two

- a) Briefly explain how mixed hearing impairment result in audiological point of view. (9 marks)
- b) An audiologist decided to perform screening test of hearing in his audiology room.
 - i) Cite and explain the three types of screening test he was likely to conduct-specify age appropriateness for each of them. (9 marks)
 - ii) State any two tools he could have ready for this assessment (2 marks)

Question Three

- a) Differentiate between auditory training and speech training which are both the concerns of an educational audiologist (6 marks)
- b) Cite :
 - i) Any two tools required for auditory training clearly specifying their functions (6 marks)
 - ii) Any two resources necessary for speech training and how they are used in the process

(6 marks)

- c) Why is speech training an important event in a school for learners with hearing impairment? (2 marks)

Question Four

- a) Explain how the process of hearing takes place in the middle ear and the inner ear cavities to finally reach the brain for interpretation (10 marks)
- b) Differentiate between “air conduction and bone conduction” in audiometric testing of hearing (6 marks)
- c) State the levels of hearing impairment that an audiologist designates to a client after audiometric assessment. (4 marks)

Question Five

As an educational audiologist in the county, you have been invited to conduct a seminar to present on how children with hearing impairment can be assisted to undergo education program to reach university for degree course. Prepare a concentrated speech to make them change their attitudes so that more children with hearing impairment can reach university education-young children still at home. (20 marks)