



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY, SPECIAL NEEDS EDUCATION

FOURTH YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF EDUCATION

ESN 455: AUDIOLOGY AND ELECTROACOUSTIC

DATE:

TIME:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

- 1
- a) Define the following terms as used in audiology
 - i. Audiology (1 mark)
 - ii. Hearing (1 mark)
 - iii. Amplification (1 mark)
 - iv. Hearing loss (1 mark)
 - b) Differentiate between speech production and speech perception (4 marks)
 - c) Describe what Educational Audiology is (2 marks)
 - d) Explain the external ear canal in a human being (4 marks)
 - e) State the three small bones of the ear in order starting with the one attached to the tympanic membrane (2 marks)
 - f) Describe the function of the vestibular system (2 marks)
 - g) Explain what an audiometer is (3 marks)
 - h) Explain the following terms as used in audiology
 - i. Attenuation (2 marks)
 - ii. Threshold of hearing (2 marks)

- i) Describe the function of an audiogram (4 marks)
2. Discuss sound conduction from the source up to when it gets to the brain in the hearing process (20 marks)
3. Mentioning their function, explain the auditory system in a human being (20 marks)
4. Discuss the hearing levels classified according to the degree of hearing loss (20 marks)
5. Explain factors that affects speech reception and production (20 marks)