

University Examinations 2018/2019

## SCHOOL OF EDUCATION

# DEPARTMENT OF EDUCATIONAL PSYCHOLOGY, SPECIAL NEEDS EDUCATION FOURTH YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF EDUCATION (SPECIAL NEEDS EDUCATION) ESN 455: AUDIOLOGY AND ELECTROACOUSTIC

DATE: 3/5/2019

TIME: 8.30-10.30 AM

### INSTRUCTIONS

Answer Question One and Any Other Two Questions

### **QUESTION ONE (30 MARKS)**

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 m			
c)	Descri	Describe what Educational Audiology is (2 marks		
d)	Explain	Explain the external ear canal in a human being (4 ma		
e)	State the three small bones of the ear in order starting with the one attached			
	membrane			
f)	Describe the function of the vestibular system (2)			
g)	Explain what an audiometer is (3)			
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)

### **QUESTION TWO (20 MARKS)**

Discuss sound conduction from the source up to when it gets to the brain in the hearing process

#### **QUESTION THREE (20 MARKS)**

Describe the auditory system in a human being and Cleary show the function of each part.

### **QUESTION FOUR (20 MARKS)**

Discuss the hearing levels classified according to the degree of hearing loss

#### **QUESTION FIVE (20 MARKS)**

Explain factors that affects speech reception and production