

ELIZADE UNIVERSITY, ILARA-MOKIN ONDO STATE

FACULTY: BASIC AND APPLIED SCIENCES

DEPARTMENT: PHYSICAL AND CHEMICAL SCIENCES

FIRST SEMESTER EXAMINATIONS

2019/2020 ACADEMIC SESSION

COURSE CODE:

AGY 403

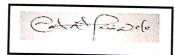
COURSE TITLE:

ENGINEERING GEOLOGY

DURATION:

2 ½ Hours

HOD's SIGNATURE



TOTAL MARKS: 60

INSTRUCTIONS:

ANSWER THREE (3) QUESTIONS IN ALL.

۱.	(a) (b)	Discuss the importance of Engineering Geology. Define the following Atterberg limits:			
	(0)		(iii)	Plastic limit	
		` '	(iv)	Shrinkage limit	
2.	(a)	List the three major soil classification systems			
	(b)	Explain soil strength and compressibility as related to engineering soil properties			
	(c)	A soil sample in its undisturbed state was found to have volume of 105cm ³ and			
		mass of 201g. After oven drying the mass got reduced to 168g. Compute:			
		(i) water content (ii) Dry de	nsity ((iii) void ratio. Take $G = 2.7$	
3.	(a)	What is engineering property of rock?			
	(b)	Discuss four factors that influences the engineering properties of rocks			
	(c)	Write extensively on two laboratory soil tests			
4.	(a)	What is site investigation?			
	(b)	Discuss the objectives of site investigation.			
	(c)	Define the following geological cycle events:			
		(i) Weathering	(iii)	Deposition	
		(ii) Transportation	(iv)	Upheaval	
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