EG

ELIZADE UNIVERSITY

FACULTY OF BASIC AND APPLIED SCIENCES

DEPARTMENT: PHYSICAL AND CHEMICAL SCIENCES

PROGRAMME: APPLIED GEOPHYSICS EXAM TITLE: DEGREE EXAMINATION

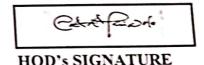
COURSE CODE & TITLE: AGY 403 - ENGINEERING GEOLOGY

TIME ALLOWED: 2 hrs 30 mins

SEMESTER/SESSION: FIRST / 2020/2021

INSTRUCTIONS: Write your matriculation number on the cover page of the exam booklet.

Answer THREE (3) QUESTIONS (Question No. 1 is compulsory)



1.	(a)	List the three major soil classification systems and explain one?
	()	

(b) Define and outline the index properties of soil

- (c) A soil sample in its undisturbed state was found to have volume of 105cm³ and mass of 201g. After oven drying the mass got reduced to 168g. Compute:

 (i) water content (ii) Dry density (iii) void ratio. Take G = 2.7
- 2. (a) Discuss the importance of Engineering Geology.

(b) Define the following Atterberg limits:

- (i) Liquid limit
- (iii) Plastic limit
- (ii) Plasticity index
- (iv) Shrinkage limit
- 3. (a) What is engineering property of rock.
 - (b) Discuss four factors that influences the engineering properties of rocks
 - (c) Enumerate six properties of engineering properties of rocks
- 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