

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF GEOLOGY

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BTech GEOLOGY
2017/2018 SESSION

COURSE CODE: GEL 121

UNIT: 2

COURSE TITLE: INTRODUCTION TO GEOLOGY II: LABORATORY PRACTICE

INSTRUCTIONS: ANSWER ONE QUESTION FROM SECTION ONE AND ANY TWO
FROM SECTION TWO

TIME ALLOWED: 1 HOUR

DATE: 12TH APRIL, 2018

SECTION ONE

1. List the importance of the following field equipment in geological mapping:
 - I) Compass- clinometer
 - II) Hand lens
 - III) Global Positioning System
 - IV) Camera
 - V) Hard cover notebook
 - VI) Penknife
 - VII) Geological harmer
2. Discuss safety measures to be taken during geological mapping.

SECTION TWO

1. List five equipments you observed in the engineering geology laboratory and discuss the uses of any three.
2.
 - i) List any two geologic structures you observed on the Bosso campus.
 - ii) Name any two economic minerals you observed in the rocks around Bosso dam.
 - iii) What is the name of the host rock for the gold mineralization at Maiwayo village along Minna-Bida road.
3. Use the physical properties provided in the table below to identify all the minerals.

S/N	Physical property							Mineral name
	Color	Streak	Cleavage	S/G	Hardness	Habit	Feel/touch	
1	Grey/greenish	Colourless	Good	Low	Low	Platy	Saopy/slippery	
2	White	Colourless	Good	High	High	Massive	Rough	
3	White	Colourless	Good	Low	Low	Platty	Smooth	
4	Grey	Colourless	Poor	Low	Low	Fibrous	Rough	
5	Black	Black	Poor	Low	Low	Tabular	Rough	
6	Red/ reddish brown	Red/ reddish brown	Poor	High	High	Massive	Rough	