

CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE, NIGERIA



COLLEGE OF NATURAL AND APPLIED SCIENCES
RAIN SEMESTER EXAMINATIONS, 2020/2021 SESSION
B.Sc. GEOLOGY AND MINERAL SCIENCES

GEM 213- PHYSICAL GEOLOGY UNITS: 3 UNITS
TIME ALLOWED: 2 HOURS
INSTRUCTIONS: ANSWER ANY THREE QUESTIONS

INSTRUCTION: ANSWER ANY THREE QUESTIONS

- 1a. Briefly describe the rock-forming mineral groups.
 - b. Why are they called “rock-forming”?
 - c. Which are silicates?
 - d. Why are so many of them silicates
 - e. List and explain the physical properties of minerals most useful for identification

2. What is hydrolysis? What happens when granitic rocks undergo hydrolysis? What minerals react? What are the reaction products?

- 3a. Write short note on the structure and composition of the earth
 - b. What properties of the asthenosphere allow the lithospheric plates to glide over it?
 - c. How does physical geology contribute to the understanding of the composition of the earth and the physical changes occurring in it?

4. Briefly explain the following with diagram where necessary: alluvial fans, deltas, bars and natural levee.

5. What is the difference between a fold and a fault? Describe any three folds and faults that you know.