



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE, NIGERIA.

COLLEGE OF NATURAL AND APPLIED SCIENCES

HARMATTAN SEMESTER EXAMINATIONS, 2023/2024 SESSION

B.Sc. GEOLOGY AND MINERAL RESOURCES EXAMINATIONS

COURSE TITLE: ENGINEERING GEOLOGY

COURSE CODE: GEM 465

TIME ALLOWED: 2 HRS 30 MINS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS.

1.
  - a. Describe in details the activities involved in carrying out engineering geological investigation
  - b. What is the relevance of Geology to civil engineering?
  
2.
  - a. Explain the term Dams
  - b. Briefly define 5 types of dams
  - c. As a geologist what do you consider before selecting a dam site.
  
3.
  - a. Explain the term terrain and mention 2 reasons why terrain classification is important to an engineer?
  - b. Identify and briefly describe five types of terrain, and outline the factors that influence terrain formation.
  
4.
  - a. What is Geotechnics and how is it applied?
  - b. Define soil mechanics and explain the composition of soil
  - c. Soil is a weathering product of rocks. Explain?
  
5.
  - a. Give a comprehensive description of dewatering processes
  - b. Outline and explain three key differences between engineering geology and geology
  
6. Write short notes on.
  - a. Slope stability
  - b. Laterite soils
  - c. Retaining wall