



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE
COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF PHYSICAL & EARTH SCIENCES
GEOLOGY & MINERAL SCIENCES

Harmattan Semester Examinations (B.Sc. Degree), 2016/2017
COURSE: GEM 375 – Structural Geology

Unit: 3Units

Time Allowed: 2¹/₂Hrs

Instructions: Answer Any Four Questions

Illustrate your answers with large, clearly labeled diagrams where necessary

- 1a Describe the environmental factors that usually affect the rock response to stress with appropriate diagrams.
- b Differentiate the following pairs with diagrams.
- i) Viscoelastic and elasticoviscous.
 - ii) Brittle fracture and ductile fracture.
 - iii) Syntaxial and antitaxial veins.
- c Explain deformation beyond the elastic limits with relevant examples
- 2a Explain five types of cleavages.
- b Enumerate the importance of joints.
- 3a What are Unconformities?
- b Explain three types of unconformities with appropriate illustrations.
- c How would you recognize faults in the field?
- 4a Explain the classification of folds based on geometry.
- b As a geologist, how would you recognize folds in the field?
- 5a What are primary structures?
- b Explain 4 primary structures that can be used as evidence of younging with relevant diagrams and examples.