



CRAWFORD UNIVERSITY, IGBESA
DEPARTMENT OF GEOLOGY AND MINERAL SCIENCES
2010/2011 RAIN SEMESTER SESSION: 2010/2011
GEM 358: REGIONAL GEOLOGY OF AFRICA UNIT : 2UNITS

INSTRUCTION: Answer four questions in all.

1. Discuss the significance of geology of Africa in relation to the world geology.
2. Write short note on the followings:
 - i) Craton and Platform
 - ii) Shield and Basin
 - iii) Cratonic Nuclei
 - iv) Precambrian Rock and Basement Complex
3. Highlight the Precambrian rocks of Archean age and discuss briefly the Archean greenstone belt of the Kaapvaal province.
4. Witwatersrand basin is an example of intracontinental basins of Early Proterozoic age. Discuss this basin in term of its tectonic setting, stratigraphy and mineralization.
5. Discuss any four of the following Mesozoic Cenozoic basins in Africa with reference to their tectonic sitting, stratigraphic and mineralization.
 - (i) Senegal basin
 - (ii) Liberian basin
 - (iii) Ivory Coast basin
 - (iv) Dahomey basin
 - (v) Niger Delta basin
6. Explain any one of the following:
 - i) Mineralization in the Precambrian Rocks of South Africa
 - ii) Mineralization in the Precambrian Rocks of West Africa
 - iii) Mineralization in the Precambrian Rocks of East Africa
 - iv) Mineralization in the Equitorial Atlantic basin
 - v) Mineralization in the South African Coastal basin
 - vi) Mineralization in the Aptial salt basins in Africa