



CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE
COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF PHYSICAL & EARTH SCIENCES
GEOLOGY AND MINERAL SCIENCES
Rain Semester Examinations (B.Sc. Degree), 2021/2022

COURSE: GEM 222 – Mineral Resources UNIT: 3 Units TIME ALLOWED: 3Hrs

INSTRUCTION: Answer four (4) Questions in ALL

1. a. Name and describe 10 metallic minerals. (5 marks)
b. Explain how minerals are mined (5 marks)
c. Explain the following terms. (5 marks) *Reserve, Proved Ore Reserve, Probable Ore Reserve, Indicated Resources and Inferred Resources.*
2. a. Give a brief explanation of mineral resources. (5 marks)
b. Describe, in detail, the occurrence of primary energy resources. (10 marks)
3. Give a classification of mineral resources based on use. (15 marks)
4. Explain the following terms:
 - a. Fossil Fuel Bank. (5 marks)
 - b. Placer Mineral Group. (5 marks)
 - c. Fractional Distillation of Petroleum. (5 marks)
5. a. Explain, in detail, the process of coal formation. (5 marks)
b. Give a breakdown of Coal reserve. (5 marks)
c. Highlight 5 types of Coal you know and their uses. (5 marks)
6. Explain the relationship between Photosynthesis and Fossil Fuel. (15 marks)