



CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE, NIGERIA.
COLLEGE OF NATURAL AND APPLIED SCIENCES
HARMATTAN SEMESTER EXAMINATIONS, 2021/2022 SESSION
B.Sc. GEOLOGY AND MINERAL RESOURCES EXAMINATIONS
GEM 468: INDUSTRIAL ROCKS AND MINERALS UNITS: 3
TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS.

- 1) Give detailed differences between metallic and non-metallic minerals
- 2a) Explain briefly five (5) environmental hazards associated with mining of industrial minerals.
 - b) List the chemical properties of minerals
- 3a) Industrial rocks and minerals are classified according to their industrial and domestic applications list five (5) and give two (2) applications each.
 - b) List five non-metallic minerals, their uses and geological occurrences
- 4a) Elucidate the following physical properties of minerals
 - Hardness
 - Luster
 - Color
 - Fracture
 - Specific gravity
 - b) Give five (5) classifications of non-metallic deposit
- 5a) Classify the following into their appropriate groups under minerals and rocks: Feldspar, Granite, Slate, Barite, Sandstone, Talc, Mica, Basalt, Marble, Magnesite, Schist, Asbestos, Salt, Beryl, Perlite, Gneiss, Clay, Graphite, phosphate rock, Gypsum
 - b) List five (5) common non-metallic minerals
- 6a) To your Understanding give nine (9) general characteristics of non-metallic minerals
 - b) Define the following terms
 - Minerals
 - Ores
 - Gangue
 - Waste
 - Tailings
 - Fossil fuels