



**CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE, NIGERIA**

**COLLEGE OF NATURAL AND APPLIED SCIENCES
RAIN SEMESTER EXAMINATIONS, 2022/2023 SESSION**

**B.Sc. GEOLOGY AND MINERAL SCIENCES
GEM 306- QUATERNARY GEOLOGY UNITS: 2**

**TIME ALLOWED: 2HRS: 30MINS
INSTRUCTION: ANSWER ANY THREE QUESTIONS**

1.
 - a. Highlight the various geological events that took place in this period.
 - b. Differentiate between glacial and interglacial period.
 - c. List the evidences of glacial and interglacial period as preserved in rocks, soil profiles and sediments.

2. Explain the effects of the Quaternary period on the following:
 - a. Lakes and Rivers.
 - b. Ocean.
 - c. Plants and Animals.

3.
 - a. Explain how the Milankovitch factors affect the climate in the Quaternary period.
 - b. Explain the climatic variation caused by drifting continents.

4. Write concise notes on the following:
 - a. Eemian Interglacial.
 - b. Younger Dryas.
 - c. Heinrich events

5. Describe the use of oxygen isotope analysis in studying the climatic conditions in the Quaternary