



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**2021\_2 EXAMINATION**

**COURSE CODE: EMT 309**

**COURSE TITLE: Environmental Geosciences**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

**Instruction:** Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) is compulsory and carries 25 marks, while the other questions carry equal marks (15) each.

1a Discuss the concept of earth sculpturing. **(12marks)**

1b. Based on temperature, make a list of the vertical compositions of the atmosphere in descending order. **(5marks)**

1c. Mention four (4) importance of the troposphere. **(4marks)**

1d Explain the concept of hydrological drought. **(4marks)**

2a) What is drought? **(3marks)**

2b List the types of droughts we have. **(2marks)**

2c. Write short notes on agricultural, hydrological, and socio-economic droughts. **(7marks)**

2d. Mention the types of earthquake zones. **(3marks)**

3a Discuss the stratosphere. **(8marks)**

3b. List and briefly explain how earthquakes can be monitored and managed. **(7marks)**

4a. Briefly define flood. **(3marks)**

4b. Explain the concepts of earthquakes. **(6marks)**

4c Mention at least six (6) flood preventive measures **(6marks)**

5a) Write an explanatory note on troposphere. **(6marks)**

5b. Write an explanatory note about gully and rill erosion. **(9marks)**