



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**2020\_2 EXAMINATIONS**

**COURSE CODE: EMT309**

**COURSE TITLE: Environmental Geosciences**

**CREDIT: 2Units**

**TIME ALLOWED: 2 Hours**

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

- 1a). In terms of solid minerals exploration, differentiate between qualitative assessment and quantitative assessment. **(3marks).**
- b). Citing relevant examples show that earthquakes are more associated with divergent (accretion) and subduction zones than the strike-slip plate boundaries. **(7marks).** c). What makes the lower layer of the stratosphere ideal for flying? **(2 marks)** d). What is evapotranspiration? **(3 marks)** e). What do you understand as socio-economic drought? **(5marks)**
- f). Explain how the desire to achieve bumper harvest by farmers is leading to chemical pollution

**(5marks)**

- 2a). List four exogenous hazards. **(4 marks)**
- b). What is exploration? **(3 marks)**
- c). List five effects of mining on the environment. **(5 marks)**
- d). What are baroclinic zones? **(3 marks)**

- 3a). In clear terms, discuss hydrological drought. **(5 marks)**
- b). Briefly describe cyclone. **(5 marks)**
- c). List five major tectonic plates. **(5 marks)**

- 4a). Describe global warming within the stratosphere. **(5 marks)**
- b). Describe water evaporation in the troposphere. **(5 marks)**
- c). List five factors that affect the intensity of an earthquake. **(5 marks)**

- 5a). State three major earthquake zones at the global level. **(3 marks)**
- b). State six ways of managing earthquake. **(6 marks)**
- c). How does volcanic eruption result into pollution? **(4 marks)**
- d). What is tropical cyclogenesis? **(2 marks)**