



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi- Abuja

**FACULTY OF EDUCATION**

**APRIL/MAY 2019\_1 EXAMINATION**

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**COURSE CODE: SED312**

**COURSE TITLE: EARTH AND THE UNIVERSE**

**CREDIT UNIT: 2**

**TIME ALLOWED: 2 HOURS**

**INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO**

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1. a. The Paleozoic era is sub-divided into 6 geologic periods. List and explain any 5 of the sub-divisions. **(10 marks)**

b.

i. Mention 5 mineral deposits of national interest in Nigeria and identify their specific locations. **(10 marks)**

ii. Identify five problems associated with mining. **(5 marks)**

iii. Enumerate 5 importance of rocks. **(5 marks)**

**(30 MARKS, 50 MINUTES)**

2.

a. Describe the internal structure of the earth. **(10 marks)**

b. i. Mention three (3) areas where space exploration has impacted global challenges. **(3 marks)**

ii. How would you describe the location of planet **earth** in the universe? **(3 marks)**

c. What is the difference between a solar eclipse and a lunar eclipse? **(4 marks)**

**(20 MARKS, 35 MINUTES)**

3. a. Identify four Greenhouse Gases and mention four sources of each. **(10 marks)**

b. Explain five (5) factors that affect climate globally. **(10 marks)**

**(20 MARKS, 35 MINUTES)**

4. a. List four challenges of space exploration. **(4 marks)**

b. Discuss five benefits of International Space Station (ISS). **(10 marks)**

- c. Explain briefly the three types of solar eclipses. (6 marks)

(20 MARKS, 35 MINUTES)