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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

UNIVERSITY VILLAGE, PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI- ABUJA

**FACULTY OF EDUCATION**

**OCTOBER/NOVEMBER EXAMINATION 2016**

COURSE CODE: **SED312**

COURSE TITLE: **EARTH AND THE UNIVERSE**

CREDIT UNITS; **2**

INSTRUCTIONS: **ANSWER QUESTION 1 AND ANY** OTHER **2 QUESTIONS**.

TIME: **2Hrs**

**QUESTION**:

1.a. Describe what took place during the following geologic periods: Ordovician, Carboniferous. **6 marks**

b.

1. Give a brief description of the outer zones of the earth. **3 marks**
2. Name five mineral deposits found in Nigeria and for each mention at least two specific locations. **10 marks**
3. Identify five problems associated with mining. **5 marks**
4. Distinguish between Homosphere and Heterosphere. **5 marks**
5. What happens when the moon is at one of its nodes? **1mark**

2.

 a. Explain the contribution of the Soviet Union to space exploration in the early days. **10 marks**

b. i. Mention any three (3) areas of benefits in space exploration to global challenges. **3 marks**

 ii. Identify three common Green house gases. **3 marks**

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

3.a

1. Describe the characteristics and mode of formation of igneous rocks. **10 marks**
2. Give five economic importance of rocks. **5 marks**

b. Draw and label the internal structure of the earth. **5 marks**

4. a. Identify four Green house Gases, and for each mention four sources. **10 marks**

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