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NATIONAL OPEN UNIVERSITY OF NIGERIA

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

JANUARY/FEBRUARY 2017 2 EXAMINATION

COURSE CODE: SED312

COURSE TITLE: EARTH AND THE UNIVERSE

CREDIT UNITS; 2

INSTRUCTIONS: ANSWER QUESTION 1 AND ANY OTHER 2 QUESTIONS.

TIME: 2Hrs
OUESTION:

1. a. Mention **one**feature of each ofthe following geologic periods: Hadean, Archean Proterozoic, Phanerozoic and Perimian. **10 marks**

b.

- i. Give a brief description of the outer zones of the earth.3 marks
- ii. Name five mineral deposits found in Nigeria and for each mention at least two specific locations. **10 marks**
- iii. Identify five problems associated with mining.5 marks
- iv. Describe the formation of Igneous and Sedimentary rocks.5 marks
- v. According to radiometric dating, how old is the earth? 1mark

2.

- a. Geologists use specific properties toidentify rocks and minerals. Briefly explain any five of them.**10 marks**
- b. i. Mention any three (3) areas of benefits in space exploration to global challenges. 3 marks
 - ii. Identify three common Greenhouse gases.3 marks
- c. What is the difference between a solar eclipse and a lunar eclipse? 4 marks

3.a

- i. Mention four characteristics of Sedimentary rocks and briefly describe the formation processes of "mechanically formed sedimentary rock". **10 marks**
- ii. Give five economic importance of rocks.5 marks
- b. State the equations for the two processes that removecarbondioxide from the atmosphere.5 marks
- 4. a. Identify fourGreenhouse Gases, and for each mention four sources. 10 marks
- b. Explain five (5) factors that affect climate globally. **10 marks**
- **5**. a. List fourchallenges of space exploration. **4 marks**
- b. Discuss five benefits of the International Space Station (ISS).10 marks
- **c.** Explain briefly the three types of solar eclipses. **6 marks**