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## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja.

## **FACULTY OF EDUCATION**

2020 1 Semester

COURSE CODE: SED328 (2CU)

COURSE TITLE: ENERGY AND MATTER II

**Instructions:** Answer question 1, and any other two questions.

Time Allowed: 2 Hrs

1.a. i. Explain the scientific meaning of light energy. (6 marks)

- ii. What are the criteria used to classify light energy in to its various forms? (6 marks)
- b. i. Briefly describe the transformation of light energy as provided from the sun into other forms of energy. (6 marks)
  - ii. Name 8 sources of light energy. (8 marks)
  - iii. List 4 uses of light energy. (4 marks)

(Q1 = 30 marks)

- 2.a. Explain the formation of acid rains and back up your assertion with appropriate chemical equations. (10 marks)
  - b. Discuss four (4) important health effects of ground level ozone. (10 marks).
- a. Distinguish clearly between primary and secondary pollutants. (10 Marks)
  - b. Write brief notes on:
    - (i) Radiation (5 Marks)
    - (ii) Global warming. (5 Marks)
- 4.a. Using the appropriate equations, explain the concept, entropy. (10 Marks).
  - b. Briefly discuss the applicability of entropy in a chemical process. (10 Marks).