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NATIONAL OPEN UNIVERSITY OF NIGERIA Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja. DEPARTMENT OF SCIENCE EDUCATION.

EXAMINATION: 2021\_2 COURSE CODE: SED328 COURSE TITLE: ENERGY AND MATTER II CREDIT UNIT: 2 TIME ALLOWED: 2HOURS INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO

- a. What constitutes particulate matters? (10 marks)
  b. i. State two (2) ways that one can become exposed to lead? (10 marks)
  ii. Discuss any four (4) negative effects of exposure to lead. (10 marks).
- 2. a. i. What is the resultant product when emitted hydrocarbons react with NOx in the presence of sunlight? (5 marks).

ii. How is the resultant product in a(i) above important to the earth's atmosphere? (5 marks)

b. Identify four (4) adverse effects of exposure to Lead. (10 marks)

- 3. a. Write briefly on the following phenomena;
  - i. wet deposition and
  - ii. dry deposition? (5 marks x = 10 marks)
  - b. Describe the process of acid deposition and the effect it has on forest and aquatic lives. (10 marks)
- 4. a. Outline two (2) health problems associated with short term exposure and three (3) for long-term exposure to Sulphur (iv) oxide (SO<sub>2</sub>) (10 marks)

bi. Give clear distinctions between primary particles and secondary particles (6 marks) bii. Provide two examples of primary particles and two examples of secondary particles (4 marks)