



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: ESM343
COURSE TITLE: CLIMATE CHANGE AND THE ENVIRONMENT

TIME ALLOWED TWO (2) HOURS
INSTRUCTION – ANSWER ANY FOUR (4) QUESTIONS

1. According to the temperature changes, the atmosphere comprises of four major layers. List the four major layers and discuss the characteristics of any two of the layers. (17.5 marks)
2. List and explain five greenhouse gases of your choice. (17.5 marks)
- 3a. What are the factors responsible for climate change? (5 marks)
b. Discuss the effects of climate change on the environment. (12.5 marks)
- 4a. Describe the two processes that lead to the formation of acid rain. (11.5 marks)
b. Explain two effects each of acid deposition on plant, soil and man. (6 marks)
5. Explain the climatic influence of ocean currents on the adjacent land masses. (17.5 marks)
6. History of past climate can be reconstructed using proxy data. Explain, giving five examples. (17.5 marks)