



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SEPTEMBER/OCTOBER 2015 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: ESM 343

COURSE TITLE: CLIMATE CHANGE AND THE ENVIRONMENT

INSTRUCTION – ANSWER ANY FOUR (4) QUESTIONS

TIME ALLOWED – TWO (2) HOURS

1. History of past climate can be reconstructed using proxy data. Explain, giving five examples.(17.5 marks)
2. 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)
- 3a. 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)
- 4a. What are the factors responsible for climate change? (5 marks)
b. Discuss the effects of climate change on the environment.(12.5 marks)
5. List and explain five greenhouse gases of your choice.(17.5 marks)
6. Explain the climatic influence of ocean currents on the adjacent land masses. (17.5 marks)