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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science 2020_1 EXAMINATION

COURSE CODE: ESM 343 COURSE TITLE: Climate Change and Environment. CREDIT: 2 Units TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

 1a) Enumerate the effects of climate change on a global scale. 1b) What accounts for air density being greatest at the ground and decreases at high 1c) Discuss thermal usage of solar energy. 1d) Differentiate between ozone in the upper atmosphere and ozone in the lower at the solar energy. 	(1mark) (4marks)
2a) Give a detailed description of the term succession.2b) Identify five major sources of nitrogen oxides2c) Identify five earth's surface reflectivities.	(5 marks) (5 marks) (5 marks)
3a) Briefly discuss how to measure atmospheric pressure according to Evangelista3b) Define global warming.3c) List five effects of a decrease in the concentration of ozone in the ozone layer.	(4marks) (2marks)
3d) The heat-trapping gases in the atmosphere are generally referred to as greenhow why?	
4a) Mention two specific kinds of albedo and explain each one.4b) Identify five major sources of nitrogen oxides.4c) Identify three categories in which the possible uses of solar energy fall into4d) Air pressure always decreases with increasing height above the ground, why?	(6 marks) (5 marks) (3 marks) (1mark)

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5a) Complete the table below		(10 marks)	
Attribute	Early stages of	Late stages of succession	
	succession		
Plant Leaf Canopy Structure			
Role of Decomposers in Cycling			
Nutrients to Plants			
Biogeochemical Cycling			
Rate of Net Primary Productivity			
Community Site Characteristics			

5b) Describe the ozone layer.

(3 marks)

5c) What is responsible for climatic differences between cities and rural areas? (2 marks)