2023_2 EXAMINATIONS__

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) State seven consequences of acid deposition on human well-being	(7marks)
1b) Discuss climax community 1c) List five effects of a decrease in the concentration of ozone in the ozone layer. 1d) Identify three sources of methane. 1e) Explain how the aquatic system is influenced by acid deposition.	(6 marks) (5 marks) (3marks). (4marks)
2a) Describe the first layer of the atmosphere.2b) Discuss water pollution from the angle of nonpoint sources2c) Justify the role of ozone layer in insulating the earth.2d) Why does water move in the direction of wind?	(6 marks) (4marks) (4marks) (1mark)
 3a) Differentiate between allogenic and autogenic succession 3b) Explain how fertilizer application contributes to an increase in the amount of greenhouse gas. 3c) Explain absorption as an atmospheric process that modifies the solar radiation through the atmosphere destined for the earth's surface. 3d) Explain how the atmosphere is heated by convection. 	(4 marks)
 4a) Describe horizontal distribution of temperature. 4b) Differentiate between net primary production and secondary production. 4c) State three functional roles of water vapor. 4d) Explain proxy data with respect to glacial ice deposits. 	(5 marks) (4 marks) (3marks) (3marks)
5a) Explain how methane concentration is being increased by rice farming 5b) Discuss how habitat destruction and species extinction threaten the environm 5c) Describe the last atmospheric layer.	(4 marks) nent. (5 marks) (6marks)