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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science POP EXAMINATION 2022_2

COURSE CODE: ESM343 COURSE TITLE: Climate Change and Environment CREDIT: 2Units TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other TWO (2) questions. Question number one (1) carries 30marks, while the other questions carry (20) marks each.

1a). With the aid of a diagram illustrate the global modification of incoming solar radiation by atmospheric and surface processes. (**15 marks**)

1b). Describe the two specific kinds of albedo that scientists measure (**5marks**)

1c). Explain how physical and biological data contributed to the earth's climatic history (**5marks**)

1d). Discuss the role of the following in the atmosphere/Explain the role of Oxygen in the atmosphere. (**5marks**)

2). Write short notes on the following;

i. Precipitation(2marks)

ii. Humidity(**11marks**)

2b). Outline the basic factors that enhance the desirability of latrines(7marks)

- 3a) Describe Air temperature in relation to air in the atmosphere (2marks)
- 3b) Describe the instruments that are used to measure wind and how they operate (6marks)
- 3c) State the reflectivity of insolation percentage the following (5marks)
 - i. Dry sand
 - ii. Broadleaf deciduous forest
 - iii. Needle leaf coniferous forest
 - iv. Grass type vegetation
 - v. Fresh snow

3d). Explain the pit latrine system(7marks)

4a) Discuss the role of the following in the atmosphere;

i. Nitrogen(**4marks**)

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ii. Carbon Dioxide(6marks)

4b) Explain the role of absorption processes in modifying the solar radiation (5marks)

- 4c). Explain how waste water becomes influent (1mark)
- 4d). Write out the equation for the chemical reaction of photosynthesis(2marks)
- 4e). Differentiate between primary and secondary treatment of waste water(2marks)

5a)Discuss the stratosphere (15marks)

5b). outline the features of the alternative system of secondary treatment (5marks)

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