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## National Open University of Nigeria Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja Faculty of Science 2020 2 EXAMINATIONS

**COURSE CODE: ESM 345** 

**COURSE TITLE: Applied Climatology** 

**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.

- 1. a. Explain Climate-Crop Relations (5 marks)
- b. Explain linear programming and benefit-cost analysis in assessing economic impacts of weather and climate (10 marks)
  - c. Briefly explain the influence of climate on the mining industry (5 marks)
  - d. Discuss motivations for weather modification by man (5 marks)
  - **2.** a. With relevant examples, explain why most crops cannot be grown successfully unless the temperature exceeds some critical values. (4 marks)
  - b. Critically examine the role of wind in agriculture (6 marks)
  - c. With relevant examples, explain any two hazards on agriculture (5 marks)
  - 3. a. Describe the various ways high winds can serve as hazard to agriculture (5 marks)
  - b. Explain how weather influences crop pests and diseases (7 marks)
  - **c.** Discuss simulation analysis as it relates to assessment of economic impacts of weather and climate. (3 marks)
  - **4.** a. Climate knowledge is useful in Agricultural planning and development. Discuss (6 marks)
  - b. What are the areas of consideration of climatic costs in industrial production? (3 marks)
  - c. Explain the direct and indirect ways climate affects animal husbandry (6 marks)
  - 5. a. What are the relevance of climate in commercial activities (service industry)? (6 marks)
  - b. What are the implications of ground de-icing on aircraft? (5 marks)
  - c. Discuss the relationship between climate and construction industry (4 marks)