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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**Plot 91, Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja**

**Faculty of Sciences**

**July Examination2017**

**COURSE CODE: ESM345 Time: 2:30mins**

**COURSE TITLE APPLIED CLIMATOLOGY UNIT: 2**

**INSTRUCTION: Answer questionsand any other three**

**1a.** With examples, explain the term “Applied Climatology”**(10 marks)**

**b.** Discuss the role of climate in the aviation industry**(15 marks)**

2a. Describe the scope and content of applied climatology. **(10 marks)**

2bBriefly explain any five areas of applied climatology **(5marks)**

3a. Define flood, with relevant examples explain seven causes of flooding in Nigeria **(5 marks)**

3b. Describe five ways flooding can be prevented?**(10 marks)**

4a. With examples explain the term manufacturing industry **(5marks).**

4b. Explain the relevance of climatic elements in the location of manufacturing industries.**(10 marks)**

5a. Discuss with example the merits and demerits of weather modification **(10 marks)**

5b. With examples, differentiate between weather and climate **(5marks)**