



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE**  
**2025\_2 EXAMINATIONS**

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**COURSE CODE: EHS517**  
**COURSE TITLE: BIOMETEOROLOGY**  
**COURSE UNITS: 2 CREDIT UNITS**  
**TIME ALLOWED: 1 ½ HOURS**  
**TOTAL SCORE: 70 MARKS**  
**INSTRUCTION: ANSWER ALL QUESTIONS**

- 1 (a)** Explain the concept of Biometeorology? **5 marks**
- (b)** Explain the effect of phenology **6 marks**
- (c)** Discuss the following classification of biometeorology
- i. Plant biometeorology
  - ii. Animal biometeorology
  - iii. Human biometeorology
- (d)** Define Coriolis force **12 marks**  
**2 marks**
- 2 (a)** Define the following
- i. Wind
  - ii. Turbulence
  - iii. Atmospheric pressure
  - iv. Geographic Information System (GIS)
  - v. Prevalence
- (b)** Describe the use of cohort and case control methods for determining the relationship between health and weather conditions **5 marks**  
**8 marks**
- (c)** Explain the effect of climate on water borne diseases **5 marks**
- (d)** Define a forest **2 marks**
- 3(a)** Explain any five (5) different types of forest **10 marks**
- (b)** Explain the types of weather reaction to hot dry winds and typical health disorders **8 marks**
- (c)i** Biometeorology contribute to understanding the complex interactions between climate influences and health? Explain **4 marks**
- ii Explain how changes in climatic conditions impact human health in the three (3) main ways? **3 marks**