



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE
2022_1 EXAMINATIONS.

COURSE CODE: EHS 517

COURSE TITLE: BIOMETEOROLOGY

COURSE UNIT: 2 CREDIT UNITS

TIME ALLOWED: 1 ½ HOURS

TOTAL SCORE: 70 MARKS

INSTRUCTION: ANSWER ALL THE QUESTIONS

- Q1 a) Describe in detail, the concept of Biometeorology (**10 marks**)
b) What are Water Borne Diseases? (**2 marks**)
c) Discuss in detail, the effect of Climate and Weather on Water Borne Diseases.
(**5 marks**)
d) Discuss the effect of Climate on Water Washed Diseases (**5 marks**)
e) What is Phenology (**3 marks**)

Total = 25 marks

- Q2 a) Biometeorology is classified on the basis of the effects of weather and climatic conditions on plants, animals and humans. On this basis, discuss extensively three (3) classification of Biometeorology. (**15 marks**)
b) With the use of a table, describe six (6) main Meteorology elements, their definitions, instruments of measurements and units. (**12 marks**)

Total = 27 marks

- Q3 a) Define the following indices of Disease measurement
(i) Prevalence (**3 marks**)
(ii) Incidence (**3 marks**)
(iii) Intensity and Abundance (**3 marks**)
b) What is Temperature (**1 mark**)
(i) Discuss the effect of low temperature on health (**4 marks**)
(ii) Discuss the effect of high temperature on health (**4 marks**)

Total = 18 marks