GLOMOUR'S COPY

OLABISI ONABANJO UNIVERSITY, AGO-IWOYE DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING 2013/2014 HARMATTAN SEMESTER EXAMINATION

Course Code:

GRP 313

Course Title:

CLIMATOLOGY

Time Allowed:

90 MINUTES

Instruction:

Attempt ALL questions in section A and any other one in

Section B.

SECTIONA

-i. List the disposal of insolation by the earth's atmosphere and surface. Or effectivity

ii. The mean sunshine hours for Lagos, Ibadan, Kano and Sokoto on the 20th October 2014 are respectively 6.9, 6.4, 7.9 and 7.7. Using the angstrom - type equation calculate the global (Q+q) radiation for the locations when the maximum possible sunshine hours and solar radiation (Qo) are respectively 12 hours and 750 1y, day and the value of constant a and b are respectively - 0.041 and .878 where a is the intercept.

iii. Distinguish between climate problems and problem climate.

Problems can be 30/000 while Problems climate lannot be solved but arining haring force. e.g of climate problem ounaderviant requirement?

iv. List any 4 consequences of either global.

v. List three indicators and three causes of paleoclimates. palrocherates il study of pasticimates.

1. Examine the Types, causes and effects of pollution in Nigerian cities.

2. With the aid of annotated diagrams, examine the relative merits and limitations of any four instruments for measuring evaporation or evapotranspiration

Quellironine too 19 de introductor of Contammants into de env of a substance e adverse charage. etron da de presences un of introduction into de enu of a substance hampful or rolls onous extents. It can take & um of chemical subs or e s of pollution of contempollution is Caused by & discharge of consteme commercial & industrial was the into surface itso, discharges of un es to swage & chemical Contaminants such as chlorine, from the Te release of waste & contaminants into surface renote plowing t stic pollution sinucluis & accermilate of plastic products in & in I am I sely affects wildlife world left habitait or humans 3 thermal pollutions of the change in a controlled left habitait or humans 3 the mal pollutions of the change in a controlled left habitait or humans 3 the controlled left of the c temp change in natural water bodie) Caulled by homan include as are of water as Coolant in a power plant. @ aloise pollute en confesses roadings part in a power plant. as high - intensity sonari & soil contamination occurs when the are released & spill or underground leakage. @ Air pollution & released & particulates into Latin. Common gaseous pollutants carson monopoide, sulfur dioxide, on troger oxides produced by

& motor relicles. Blight pollutions include. light Tripass, out

mination and astronomical interference. Blittering? L'Crimina

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