Integation 3 chedules shows when uttgation is to ise applied and the quality of waver to be applied it also have several approaches which malerle soft moderne depretion approach, climatologies, approach, chitical stage approach, climatologies

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FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI School of Agriculture and Agricultural Technology Department of Soil Science and Technology Harmattan sentester Examinations 2015/2016

SST 407: IRRIGATION, DRAINAGE AND HYDROLOGY CREDIT UNIT: 2 UNITS TIME: 2 HOURS

eutophati

Instruction: Attempt any Four questions. Be concise and straig + to the point

(1(a) Explain the term Irrigation (b) Mention importance of irrigation to Agriculture (c) List 5 ways in which irrigation is a problem to Agriculture (d) Explain the word " irrigation frequency" (e) List the four broad factors that affect frequency of irrigation (e) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (e) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency of irrigation (c) List the four broad factors that affect frequency (c) List the four broad factors that affect frequency (c) List the four broad factors that affect frequency (c) List the four broad factors that affect frequency (c) List the four broad factors that affect frequency (c) List the four broad factors that affect frequency (c) List the four broad factors that affect frequency (c) List the

- (c)Differentiate between Drip system of irrigation and Flood system to the sort there are and drog by the order of the two methods in 2c above is salt build up a major problem in the sort there are converted to the sort the sort there are converted to the sort t
 - (b) State the different types of drainage to Agriculture (c) List 5 importance of drainage to Agriculture (d) List 5 disadvantages disadvantage to Agriculture (d) List 5 disa
 - (e) Why do you think that irrigation and drainage are related in practice & they are beened beause I all

4(a) What is evapotranspiration 7 Union is the Cost of content from soft and plant to the content (b) Outline the factors influencing evapotranspiration
(c)State the hydrologic equation and define the variables in the equation

5(a) Briefly trace the genesis of hydrology asit affects the earth generally
 (b) Write short note on hydrologic cycle and state the vital roles played by water in Agriculture

Callons affecting freq. al errigation 1) Climate & season son characteristics un 3) crop & water mgt practices

P=Precipitation EI= 2vapotranspiraxn 55 = 500

ulenal of virigation is the time interval of ting gap, usually expressed in days, but two sul

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FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI

SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY

DEPARTMENT OF SOIL SCIENCE AND TECHNOLOGY

FIRST SEMESTER EXAMINATION

COURSE CODE SST 407: COURSE TITLE: , IRRIGATION, DRAINAGE AND HYDROLOGY

CREDIT UNIT: 2 TIME ALLOWED: 2HRS DATE: 20-06-2017

INSTRUCTIONS: ATTEMPT ANY 4 QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS. BE CONCISE AND STRAIGHT TO THE POINT

•.1. The rainfall volume in Imo State is well over 2000mm, while the water requirement of rice grown under upland conditions is 1143mm.

a. Do you think that there is need to irrigate the rice crop when grown during the rainy season? Use rainfall characteristics to justify your answer

Je b. State the term that describes the irrigation practice during the rainy season

2a. What do you understand by the term irrigation?



- b. State the different types of irrigation and give 2 examples of each
- c. State your reason why irrigation and drainage are related in crop production
- 3a. Define soil drainage
- b. State the 2 broad classes of drainage systems you know
- c. State 5 merits and 5 demerits of soil drainage
- 4a. State the domains of hydrology
- f b. State the hydrologic Equation
 - c. In which areas can hydrology be applied?
- 5a. Differentiate between precipitation and evaporation
- k b. outline the various ways of measuring precipitation in an area
- c. What are the factors affecting the rate of evaporation in any given conditions.

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FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY DEPARTMENT OF SOIL SCIENCE AND TECHNOLOGY

2019/2020 SESSION HARMATTAN SEMESTER EXAMINATION.

COURSE TITLE: IRRIGATION, DRAINAGE AND HYDROLOGY CONTROL CODE:

SST 407 UNITS = 2Date: 15th February 2021. TIME. 2 hours

INSTRUCTIONS: ATTEMPT ANY FIVE QUESTIONS (5). ALL QUESTIONS CARRY EQUAL MARKS

- In Southeast Nigeria, avenge rainfall is over 2000mm. The rainfall requirements for arable crop production are well below this average. Do you think that with the volume of the annual rainfall, there is need for the study of irrigation?. Give reasons
- What do you understand by irrigation scheduling?. 2
 - (b) What soil factors are considered before scheduling a crop for irrigation command.

Why is hydrology useful on earth. Explain?.

- With the aid of a hydrological cycle, narrate the processes of 4 (i) water gain, (ii) water loss
 - Explain the following terms
 - (i) Water conveyance efficiency
 - (ii) Irrigation period

5

- Water application efficiency (iii)
- (a) Differentiate between hydrogeology and marine hydrology (b) State some examples of each 6

State the benefits of adequate drainage system in a well designed agricultural farm.

OBSERVE ALL COVID 19 PROTOCOLS STAY SAFE GOOD LUCK

