FEDERAL UNIVERSITY OF TECHNOLOGY, OWERR SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY

SEIVIESTER: COURSE TITLE: COURSE CODE: INSTRUCTION:

HARIVATTAN SESSION: 2015/2016. TIME: 3hRS CROP DISEASES AND THEIR CONTROL CST 301

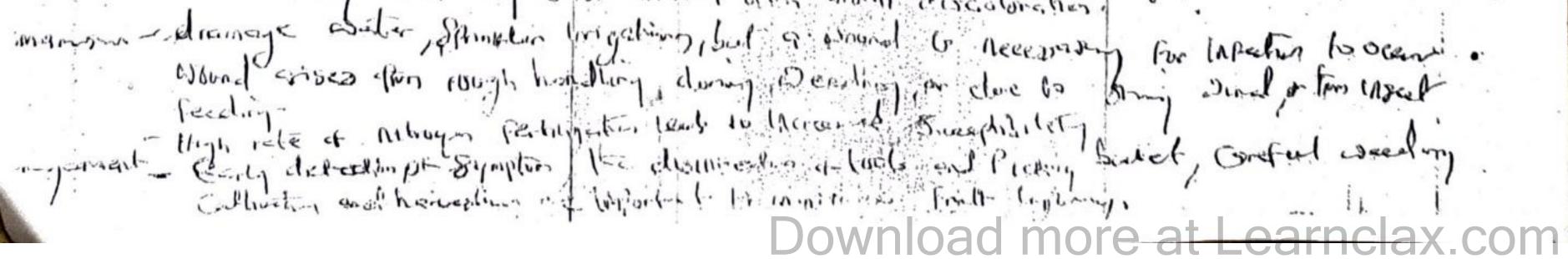
ANSWER ANY FOUR (4) QUESTIONS

a. Define the following i. Infection ii. Pathogen iii. Syndrome iv. Symptom v. Sign vi. Inoculum b. All pathogens are parasites but not all parasites are pathogens. Discuss.

a. Briefly discuss the environmental factors necessary for the growth of 2. fungi

b. Enumerate five (5) characteristics of the Ultrastructure of a fungal cell c. Briefly discuss the role of fungi in the decaying process of plants and animals and its relationship with other plants

- a. Fusarium wilt is a serious disease of Lycopersiconesculentum. Discuss this З, problem under the following:
 - i. Transmission and spread ii: Symptoms and damage iii. Prevention and control.
- a. Define the following: 4.
 - i. Virion ii. Capsid iii. Viroidiv. Viral indexing v. Disease diagnosis
 - b. i. Discuss the edunomic importance of Bacteria
 - ii. Outline the basic characteristics used for the classification of all viruses
 - c. i. Differentiate between disease control and disease management strategies n. What do you a derstand by extracellular and intracellular pathogens?
- 5.a. Under the following headings, describe the Bacterial soft rot of pepper (Chillies)
 - i. Causal Organism i. Symptoms iii. Conditions for development iv.
 - Management
 - b. i. What do you understand by the term 'Rouging' II, How does the hygiene in
- a new meet a chievel of meaning after the yest of third and segetables? Breeghtle and distraction Castral again - Grunnin Carolina
- lymations derkened Veids followed by Lear Chloruss and Aeross neerby stan may show internal dans brown durcatorstien.



FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY 201 72018 HARMA FTAN SEMESTER EXAMINATIONS

COURSE TITLE: CROIDISEASES AND THEIR CONTROL COURSE CODE: CST 301 TIME ALLOWE' 3 HOURS INSTRUCTION ANSWER ANY FIVE (5) QUESTIONS

1.(a) Differentiate between a healthy and a diseased plant. (b State the folle, ing terms and concepts used in plant pathology: (a)Disorder(), stangen (ii)Inoculum (iv)Epidemic (v)'nfection/

2.(a)Briefly explain three (3) features of fungal mycelium (b)Briefly discuss five (5) environmental factors necessary for fungal growth, (c)Briefly discuss the important role fungus has played as a saprophyte in agriculture

3.Fusarium with is a serious disease of Lycopersicon esculentum. Discuss this problem under the following: (i) Transmission and spread (ii) Symptoms and damage (iii)Prevention and control

4. Write short notes on the following: (a)Characteristics of bacteria (b) Classification of bacteria (c)Economic importance of bacteria

5.(a)Describe the bacterial soft rot of pepper (chillies) under the following headings:
 (i)Causal organism (ii)Symptoms (iii)Conditions for development (iv) Management
 (b)How does have one in a field affect the spread of disease after harvest of fruits and vegetables

6.(a)Define a Virus according to Matthews (1981) and state the advantages of early viral indexing

(b) What do you understand by diagnosis and state the merits and demerits of the two methods pl diagnosis

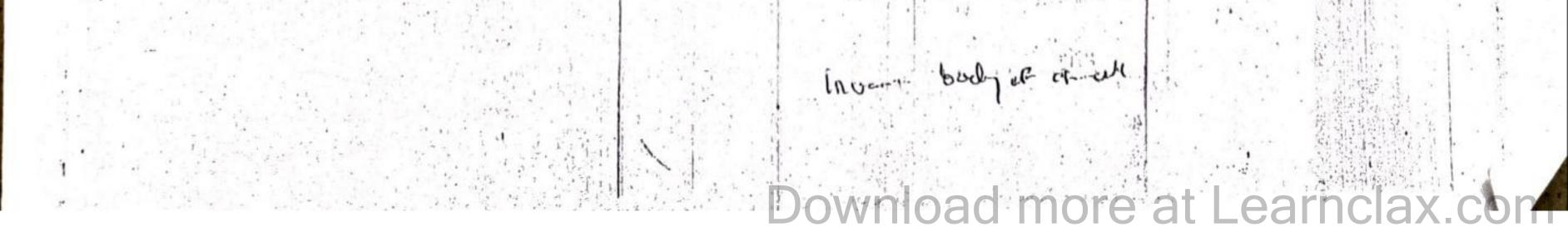
(c)Define the following terms:

(i)Primers (ii) Oligonucleotide (iii) ELISA

Archers Lochern Forms

- lane esto-streleton culled chilin - there esto-streleton culled chilin - Symbrohic relationship.

inside an off



FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY HARMATTAN SEMESTER EXAMINATION

Course code: CST 301 Session: 2019/2020

Title: Crop Diseases and their control Date: 17th February 2021

Time allowed: 3 hours.

Instructions: Answer five (5) Questions only. Each question carries 14 marks

1(a)Briefly explain, fungi in relation to the following (i)Temperature (ii)Ph (iii) Light (iv) Oxygen requirement.

(b) Fungi are achlorophyllous. Brieflyexplain the three (3) methods by which they are known to obtain their food from both living and non-living organisms.

2. Cassava bacterial blight is an important disease of cassava; (i)State the causal organism of this disease (ii) Outline atleast five symptoms of the disease (iii) Suggest ways of combating the disease.

3(a) With the aid of a well labeled diagram, describe the growth curve of a typical bacterial cell. (b) What are mycoplasma-like organisms. (c) State the morphological features of Mycoplasmas that distinguish them from most other organisms.

A. Discuss the Bacterial soft rot of chilli pepper under the following headings:
 (i) Botanical name of causal agent. (ii) Four (4) symptoms (iii) Four management practices.

5(a) Define a Virus according to Matthews (1981) and state the advantages of early viral indexing. (b) What do you understand by diagnosis and state the merits and demerits of the two methods of diagnosis.

⁷/₂ Differentiate between a healthy and a diseased plant and outline six (6) physiological activities of a healthy plant.

b. Write short notes on the following concepts in plant pathology
(i) Disorder (ii) Pathogen (iii) Symptom (iv) Inoculums (v) Epiphytotic disease
(vi) Infection

Download more at Learnclax.com

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY HARMATTAN SEMIESTER EXAMINATION Course code: CST 301. Session: 2018/2019 Time allowed: 3 hrs. Instructions: Answer any five Question.

- Differenciate between the following: (a) Healthy and diseased plant (b) A parasite and a pathogen (c) Disease and disorder (d) Epidemic and endemic disease.
- 2. (a) Briefly explain the following structural features of a fungal organism (i) Hausterium (ii) Septate hyphae (iii) Mycelium (iv) Vegetative mycelium
 (b) Briefly discuss reproduction in fungus
 (c) From the classification of fungi proposed by G.C. Ainsworth (1975) and J.Webster
 (1980), diagramatically show the following: (i) Division of fungi (ii) The classes of one division.
- Describe the Anthracnose disease of mangoes under the following headings: (i) Biological name of plant (ii) Causal organism of disease (iii) Two (2) observable symptoms (iv) Two (2) conditions for development (v) Two (2) management practices.
- 4. (a) State conventionally the causative agents of the following crop diseases (i) African cassava mosaic disease (ii) Stalk and ear rot (iii) Maize rust (iv) Cassava bacterial blight (v) Corn smut .
 - (b) With a well labelled diagram, discuss the transmission and spread of corn smut.

- 5. (a) State the characteristics of bacteria
 (b) Write short notes on the following structures of bacteria (i) Cytoplasmic membrane
 (ii) Mesosomes (iii) Structure of cell wall (iv) Flagella
 (c) State two beneficial and two harmfull activities of bacteria
- 6. (a) Define a virus and briefly describe its morphology and structure
 (b) What is the meaning of disease diagnosis and briefly explain the two methods of diagnosing a diseased plant.
 - (c) Discuss extensively the economic importance of plant viruses in crop production.



Download more at Learnclax.com