FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY 2016/2017 HARMATTAN SEMESTER EXAMINATIONS

COURSE TITLE CROP DISEASES AND THEIR CONTROL
COURSE CODE CST 301
TIME ALLOWED: 3 HOURS
SECTION A
SECTION 2 thogens to enecke fines du to gronnental consider
while wheely
SECTION A South as and of effective in the met of and much
Write short notes on the following:
(a)Pathogen (b) Pathogenicity (c) Disorder (d) Inoculum (e)Biotroph (f) Systemic of heir frame
infection (g) Epiphytotic diserse that usually occur pridely or periodically.
Briefly distinguish between the following terms: which my celium (i) Seplate and non-septate hypha (ii) Intercellular my celium (and intracellular my celium
Briefly distinguish between the following terms: with the following terms:
(i) Septate and non-septate hypha (ii) Intercellular mycelium and intracellular mycelium
The tell the
This or when the preschiem this is the Part that extends into the our and its ves ponsible for
SECTION B Spore production
3(a) What are Bacteria?
(b) With the aid of a diagram describe the growth curve of a typical Bacteria cell.
Ley laux cell walls are
4. (a) What are Mycoplasma-like organisms? Forother
(b) What are the morphological features of mycoplasmas that distinguish them from most
other organisms? I They lack all wall
other organisms? They are refus tent to many common antibiotics or security of assembly of
SECTION C
5. Discuss Rice blast under the following subtitles: (i) Transmission and spread (ii) Symptoms > spot on all
and damage (iii) Prevention and control 5011 triblage application
Mar genetic modified boulets class (with intition
6.(a) Describe one (1) named disease of Mango (Mangifera indica), stating the following: inferted and
(i)Causal organism (ii) Symptoms (iii) Conditions for development (iv) Control
strategies biplocus packers on the plant of Epicary darkens min 2:5 and mgt of fe
C. d. diamond by Empire a constance of
(ii) Hot water can be used to control the . Post . harvest disease of mango sof rot use resistance
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(iii)The
as. Rogning

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Course code: CST 301:

Title: Crop Diseases and their Control

Session: 2018/2019

Date: 14th June 2019

Time allowed: 3 hrs.

instructions: Answer any five Question.

50) Harmon adminer + They reduce 300) fertility

1. Differenciate between the following: (a) Healthy and diseased plant (b) A parasite and plant 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.
- 3. 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.