

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF PLANT BIOLOGY
FIRST SEMESTER BTECH. EXAMINATION, 2017/2018 SESSION

COURSE CODE: PLB 511
COURSE TITLE: PLANT PATHOLOGY
COURSE UNIT: 3
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS.

1. a. Explain how you would prepare Potato Dextrose Agar (PDA).
b. Explain the following:
i. Koch's Postulates ii. Inoculum iii. Pour plate iv. Sterilization
c. State how you would prepare a pure culture of fungi from a named infected material.
2. a. Give detailed classification of plant diseases with specific examples
b. Write succinctly on **two** potential diseases capable of causing significant losses to a **named** crop you have studied.
3. a. Write concisely on Principles of plant disease management.
b. With specific examples describe the four major macroscopic disease symptoms
4. Explain the following stages of plant infection process:
i. Pre-penetration ii. Penetration iii. Post penetration
5. a. i. Define the term plant disease epidemiology
ii. With the aid of a good diagram, describe the interaction of the components of plant disease epidemics.
b. "Different kinds of pathogen may attack a plant, but many plants may survive the attack". Discuss.
6. Write notes on dissemination of plant disease pathogen.