FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA DEPARTMENT OF PLANT BIOLOGY

MTECH SECOND SEMESTER EXAMINATION 2018/2019COURSE CODE: BOT 724

COURSE TITLE: PLANT DISEASE EPIDEMIOLOGY

CREDIT UNIT: 3

TIME ALLOWED: 3HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS

- 1. a. Give a concise meaning of epidemiology.
 - b. i. Write notes on the development of epidemiology.
 - ii. What are the prerequisites for the development of epidemic?
- 2. "Plant disease epidemic develops as a result of the timely combination of the same elements that result in plant disease." Discuss.
- 3. Explain the measurement of plant diseases and of yield loss under the following headings:
 - Incidence of the disease ii. Severity of the disease iii. Yield loss caused by the disease.
- 4. Explain how interactions of the structural elements of epidemics as influenced over time by factors of environment and human interference are expressed in patterns and rates.
- 5. a. Write notes on any thee of the followings:
 - i. Disease diagnosis ii. Evaluation of epidemic thresholds iii. Evaluation of economic damage threshold iv. Assessment of initial inoculum of disease.
 - b. To what extent is forecasting useful in disease management?
- Succinctly examine the contributions of modern tools in the study of plant disease epidemic.