FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY
DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY
2018/2019 Rain Semester Examination

Course code: CST 512: Course Title: Plant Pathology 11
Time allowed: 3 hrs.
Instructions: Answer any four Questions.

1(a)Briefly discuss how crop density can affect the rate of disease spread and how it can be manipulated to reduce disease spread in the field.

(b) Briefly discuss the disadvantages and advantages of mulching and soil amendments in relation to diseases spread and improvement of the soil.

(c) Briefly discuss the effects of the application of nitrogen fertilizer on crops in relation to disease development.

2(a) The assessment of plant diseases and their effects on yield involves five distinct processes. Discuss.

(b) Write short notes on the following: (i) Experimental approach of assessing diseases. (ii) Statistical approach of assessing diseases.

3(a) List the seven (7) principles of plant disease management.

(b) Discuss any four (4) of these principles with examples.

4(a) Outline the ecological factors that influence crop disease incidence.

(b) How do the following ecological variables impact on crop disease incidence and severity: (i) Wind (ii) Temperature (iii) Moisture.

5(a)Discuss the importance of assessing yield and crop loss in any agricultural research programme that has plant protection as a component.

(b) Explain explicitely why plant pathology evolved into its own Science.

(c) Define the following terms: (i) Yield loss (ii) Economic damage threshold (iii) Crop injury (iv) Crop damage.