MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT
BACHELOR OF SCIENCE IN FORSET ECOSYSTEM MANAGEMENT

COURSE CODE: FEM 3118
COURSE TITLE: FOREST PATHOLOGY

DATE: 6TH DECEMBER 2018   **TIME: 0830 – 1030HRS**

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B.**

SECTION A. (25 marks): Answer ALL questions

1. Identify the core areas that must be studied when studying forest pathology **(4 marks)**
2. Explain a "disease" showing how organisms causes diseases in trees **(5 marks)**
3. Using examples, identify the major agents that causes in the forest **(5 marks)**
4. Define disease epidemiology outlining the key factors which influence disease epidemics **(5 marks)**
5. Name the causative agent of Armillaria root rot disease and outline its symptoms and control measures **(6 marks)**

SECTION B (45 marks): Answer ANY THREE questions

6. (a) Discuss the following:
   i. Role of mycorrhizae in forest management **(5 marks)**
   ii. Classification of wood decay organisms **(4 marks)**
   iii. Factors influencing disease development **(6 marks)**
7. Write an essay on the development of forest pathology in East Africa with special emphasis on economic importance of one disease that is of significance in pulpwood industry in Kenya **(15 marks)**
8. Define the term "Damping off" and briefly discuss the methods and mechanism of its control **(15 marks)**
9. Define disease symptomatology and highlight basic steps to be followed when diagnosing forest diseases **(15 marks)**

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