



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2019/2020 ACADEMIC YEAR  
FOURTH YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES AND  
ANIMAL SCIENCES  
THE DEGREE OF BACHELOR OF SCIENCE IN  
FOREST ECOSYSTEM**

**COURSE CODE: FEM 4129**

**COURSE TITLE: FOREST EXTENSION**

**DATE: 16<sup>TH</sup> DECEMBER 2019**

**TIME: 0830-1030HRS**

**INSTRUCTIONS TO CANDIDATES**

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

*This paper consists of 3 printed pages. Please turn over*

**SECTION A (25 MARKS) ANSWER ALL QUESTIONS IN THIS SECTION**

1. Define the following terms as used in Forestry and Extension **(3 marks)**
  - i. Rural Appraisal
  - ii. Forestry Extension
  - iii. Rural Credit
  
2. a) Differentiate between training and imitation **(1 mark)**  
  
b) Identify necessary **major** skills and knowledge for a Forestry Extension Officer **(3 marks)**
  
3. a) identify **five stages** of the innovation adoption process **(2.5 marks)**  
  
b) Briefly explain models used in forestry extension education **(4 marks)**
  
4. a) Explain briefly five **stages** of adult learning **(2.5 marks)**  
  
b) Highlight the roles of government in forestry extension **(3 marks)**
  
5. a) What do you understand by extension education **(2 marks)**  
  
b) In reinventing Forestry Extension, discuss how challenges for farmers in forestry/agroforestry/ agriculture at large can be addressed **(4 marks)**

**SECTION B (45 MARKS) ANSWER ANY THREE QUESTIONS IN THIS SECTION**

6. The extension work is based on some working principles and the knowledge of these principles is necessary for an extension worker. Discuss some of these principles, as related to forestry / agroforestry / agriculture

**(15 marks)**

7. a) Explain **five** factors that influence adoption/rejection of extension knowledge by the farmers **(5 marks)**

b) Discuss the challenges and opportunities of community forestry **(10 marks)**

8. a) Describe the **issues for policy makers** in community forestry and extension which will help in successful implementation of woodlots **(5 marks)**

b) Briefly describe the current (contemporary) issues in forestry in Kenya and around the world **(10 marks)**

9. a) What to you understand by philosophy in forestry extension **(2 marks)**

b) Describe **major** methods of forestry extension and education **(13 marks)**

10. Assume that you are employed by the County Government of Meru as a Forest Extension Agent, come up with a detailed **systematic** extension program/curriculum/community mobilization that you are going to use to train farmers for **15 weeks** in forestry/agroforestry from tree nursery to marketing of forest products / non-wood forest products **(assume that in a week you have one field training)** **(15 marks)**

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