



UNIVERSITY OF KABIANGA
UNIVERSITY EXAMINATIONS

2014/2015 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRO-FORESTRY AND RURAL DEVELOPMENT

COURSE CODE: FOR 326

COURSE TITLE: FOREST MANAGEMENT

DATE: 30TH APRIL, 2015

TIME: 9.00 A.M-12 NOON

INSTRUCTIONS:

ANSWER ALL QUESTIONS IN SECTION A AND ANY OTHER TWO QUESTIONS IN SECTION B.

SECTION A: (30 marks)

Answer ALL Questions

1. Define Forest Management and state and justify whether it is a basic course or not. (6 marks)
2. State the scope of Forest Management. (6 marks)
3. i. What do you understand by the term "sustained yield?" (3 marks)
ii. State the concept and principle of sustained yield. (3 marks)
4. define the following terms in relation to forest fires:
 - i. Combustion. (1.5 marks)
 - ii. Ignition. (1.5 marks)
 - iii. Fire intensity. (1.5 marks)

- iv. Fire speed. (1.5 marks)
- 5. i. State the central task of applied professional forestry and give the overall objectives of public forest management. (3 marks)
- ii. Briefly explain the main instrument of Forest Management. (3 marks)

SECTION B: (40 marks)

Answer any TWO questions

- 6. i. Define the following terms:
 - a) Allowable cut. (2 marks)
 - b) Felling series. (2 marks)
 - c) Calendar events. (2 marks)
- ii. State the importance of forest organization and briefly describe the territorial organization of forests. (14 marks)
- 7. i. What does the term “fire behaviour” mean? (2 marks)
- ii. Explain the fire burn pattern and fire behaviour. Use diagrams to illustrate your work. (10 marks)
- iii. Forest fire prevention or control relies heavily on fire detection. Explain what you understand by fire detection and briefly discuss how it is carried out. (8 marks)
- 8. i. Discuss a normal forest and describe the basic factors of normality and state why there is need for an ideal standard. (15 marks)
- ii. State the kinds of abnormalities in a forest. (5 marks)