



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR SEMESTER ONE**

**SCHOOL OF TOURISM & NATURAL RESOURCE
MANAGEMENT
BACHELOR OF FOREST ECOSYSTEM
MANAGEMENT**

**COURSE CODE: FOR 411
COURSE TITLE: FOREST HARVESTING**

DATE: 6TH DECEMBER 2018

TIME: 1100 – 1300 HRS

INSTRUCTIONS TO CANDIDATES

Answer **All** the Questions in Section A and any **THREE** IN SECTION B

SECTION A. (25 marks): Answer ALL questions

1. Define forest harvesting comprehensively and explain briefly how this course will assist you in your professional endeavours **(6 marks)**
2. What do you understand by the following terms:
 - i. Secondary production **(2 marks)**
 - ii. Forwarding **(2 marks)**
 - iii. Stump area operations **(2 marks)**
3. By use of a diagram(s), show the cross-section of a forest road **(4 marks)**
4. What are the main reasons for;
 - i. Tree clearance in forest roads **(3 marks)**
 - ii. Maintenance of forest roads **(3 marks)**
5. Contrast between the modern professional forest harvesting and a layman's (traditional) harvesting **(3 marks)**

SECTION B (45 marks): Answer ANY THREE questions

6. Explain the important factors to consider when harvesting in natural forest as opposed to a plantation **(15 marks)**
7. (a) Evaluate the main aspects to be considered in drawing up a harvesting plan **(10 marks)**

(b) Give reasons why you think the said harvesting plan in 7 (a) above is important **(5 marks)**
8. Describe the important procedures you would follow when felling a tree and explain the main causes of economic losses due in tree felling **(15 marks)**
9. (a) Briefly explain the environmental features which influence tree harvesting **(3marks)**

(b) Identify negative effects of poor extraction of harvested materials and explain clearly on how to overcome each of the effects you have given **(12 marks)**

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