



MAASAI MARA UNIVERSITY

UNIVERSITY MAIN EXAMINATIONS

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

**SCHOOL OF NATURAL RESOURCE,
ENVIRONMENTAL STUDIES & AGRICULTURE**

**BACHELOR OF SCIENCE IN SUSTAINABLE FOREST
MANAGEMENT**

COURSE CODE: SFM 1207-1

COURSE TITLE: FOREST PRODUCTS & UTILIZATION

DATE: 14/4/24

TIME 0830-1030HRS

INSTRUCTIONS TO CANDIDATES

Answer **All** the Questions in Section A and any **THREE** IN SECTION B
*This paper consists of **TWO** printed pages. Please turn over*

Section A: Answer ALL Questions (20 Marks)

Question 1:

- a) Differentiate between wood and non-wood forest products (2 Marks)
- b) Give two examples of non-wood forest products of medicinal value (1 Marks)
- c) Give two examples of engineered wood products (1 Mark)

Question 2:

- a) Name any two (2) disadvantages of wood as a fuel? (2 Marks)
- b) Give three reasons for debarking wood before being cut in a sawmill (3 Marks)

Question 3:

- a) What is lumber (timber) drying? (3 Marks)
- b) State four goals of lumber (timber) drying (2 Marks)

Question 4:

List the six basic steps in lumber manufacturing from start to finish. (6 Marks)

Section B: Answer any THREE questions (30 Marks)

Question 5: (10 Marks)

- a) Differentiate between structural and non-structural wood composites. (5 Marks)
- b) Give reasons for shift to composite wood products across the globe (5 Marks)

Question 6: (10 Marks)

- a) What is oriented strand board (OSB)? (2 Marks)
- b) Discuss the production process of OSB. (8 Marks)

Question 7: (10 Marks)

- a) There is a general trend of increased use of wood and non-wood forest across the globe. Explain. (5 Marks)
- b) What are the potential effects of increased use of wood and non-wood forest products? (5 Marks)

Question 8: (15 Marks)

- a) What are the requirements on logs for plywood production? (4 Marks)
- b) Describe 3 rotary peeling techniques. (6 Marks)

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