

THE FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY
DEPARTMENT OF FORESTRY AND WILDLIFE TECHNOLOGY

COURSE TITLE: FOREST INDUSTRY AND QUALITY CONTROL.

COURSE CODE: FWT 510. UNIT: 2. SESSION: 2018/2019 SEMESTER: RAIN. DATE: 21/10/2014

TIME ALLOWED: 2 HRS

INSTRUCTION: ANSWER TWO QUESTION FROM SECTION A AND ALL QUESTION IN SECTION B

Question 1

- (a) What do you understand by 'timber quality control and assurance' in your locality? (3.5 MARKS)
- (b) What is lumber and why is its grading necessary in the forest industry? (5 MARKS)
- (c) For a named felled timber species, discuss the grades of lumber obtainable along the taper. (3.5 MARKS)
- (d) Classify the Nigeria tree species on the basis of their strength. (5.5 MARKS)

Question 2

- (a) Mention any four (4) agents of wood deterioration that affect its mechanical strength; and for any two (2) of them, discuss the modus operandi. (10 MARKS)
- (b) Name some of the wood preservation methods and chemicals used in Nigeria. (7.5 MARKS)

Question 3

- (a) Briefly explain the concept of cellulose derivatives under the following headings.
 - (i) Cellulose reactive properties. (3.5 MARKS)
 - (ii) Cellulose modification? (3.5 MARKS)
- (b) Write extensively on cellulose xanthate. (10.5 MARKS)

SECTION B

Question 4

Considering the current global competition at the international market and the inability of Africa forest products to compete favourably with other countries, elaborate on three (3) key areas in which you would want African forestry entrepreneurs to pay attention to. (17.5 MARKS)

Question 5

Discuss wildlife marketing in Africa using any location of your choice as case study. (17.5 marks)