

FEDERAL UNIVERSITY OYE-EKITI

FACULTY OF ENGINEERING

GENERAL ENGINEERING LABORATORY TEST (ENG 203)

TIME ALLOWED: 2 Hours

SECTION A: WORKSHOP

A. BENCH WORK AND FITTING

1. List 3 holding tools
2. List 5 marking out tools
3. Distinguish between Tap and Die
4. What are the 5 safe practices in the workshop
5. Sketch 5 types of files in the workshop

B. WOODWORK

1. Classify the following tools used in carpentry and joinery workshop: cross bar, ratchet brace, gouge chisel, mallet, try-square, rebate plane, mortice guage, panel saw, blockplane, claw hammer.
 - 2a. Explain the term seasoning of timber.
 - b. Draw and label tree structure
 - 3a. Explain the term conversion of timber.
 - b. With the aid of clear diagram state the various method of wood conversion.

C. WELDING

1. Name the welding positions and show the difference between each with neat sketches.
- 2a. Why must welding shield or welding goggle be worn?
 - b. How are the gas cylinders identified?
3. Give five suitable safety precaution in welding workshop.
 - 4a. What is welding?
 - b. Mention various welding process.
 - 5a. Sketch a well labelled electric arc welding machine.
 - b. Name all equipment and tools used in welding workshop.

D. FOUNDRY

1. List ten (10) tools/equipment used in foundry workshop and state their uses.
2. Differentiate between foundry and foundry workshop.