

**INDUSTRIAL AND TECHNOLOGY EDUCATION DEPARTMENT
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
FIRST SEMESTER EXAMINATION 2019/2020 ACADEMIC SESSION
COURSE TITLE: PRINCIPLES OF CONSTRUCTION
COURSE CODE: ITE392
CREDIT UNIT: 2 CREDIT UNITS
TIME ALLOWED: 2 HOURS
INSTRUCTION: ANSWER THREE (3) QUESTIONS ONLY**

- (1) Briefly describe five (5) sawing operations which may be carried out on the circular saw.
Sketch the shapes produced by each operation.
- (2a) Write short notes on the following
- (i) Holding and supporting tools
 - (ii) Geometrical tools
 - (iii) Cutting tools
 - (iv) Percussion and impelling tools
- (b) List three (3) tools under each and their uses
- (c) Sketch two (2) tools under each.
- (3a) Discuss three (3) reasons why surface finishes are applied to wooden structures.
- (b) Differentiate between bleaching and bleeding in wood finishes
- (4a) List and discuss five (5) basic principles of design
- (b) Differentiate between machine tool and power tool
- (5) Discuss six (6) preventive and maintenance steps to keep woodworking machinery running, and plant productive.