

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION**

COURSE CODE: ITE 501

COURSE TITLE: TOOLS AND DEVICES

TIME: 2 HOURS

INSTRUCTION: Attempt three questions

- 1a. Explain the operations performed by a circular saw machine.
 - b. Discuss how a circular saw can be used.
 - c. What are the advantages of combination saw blade and carbide tips saw.
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- 2a. What is a jointer or buzzer?
 - b. Explain the function of the following parts: (i) cutter head (ii) table adjustment lever (iii) Rebating table (iv) Table (v) Safety clutch
 - c. Mention five safety precautions to be observed when using the machine.
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- 3a. Identify an article of your choice and describe the steps for constructing such article.
 - b. Explain two holding devices essential for woodworking.
 - iii) List the main elements of jigs and fixtures,
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- 4a. Describe bandsaw machine.
 - b. List five parts of band saw machine and explain their functions
 - c. Explain how a straight sawing can be carried out.
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- 5a. What are the functions of electric hand drill?
 - b. List three types of drill and explain their functions
 - c. Describe how a hole can be created on wood using electric drill.