

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
FIRST SEMESTER EXAMINATION 2020/2021 ACADEMIC SESSION
COURSE CODE: ITE 591
COURSE TITLE: MAINTENANCE OF WOODWORKING EQUIPMENT
TIME: 2HOURS
INSTRUCTION: ATTEMPT FOUR QUESTIONS

- 1(a) Explain why planned maintenance is very essential.
- (b) Discuss the following types of maintenance.
- (i) Predictive maintenance (ii) Routine maintenance (iii) Corrective maintenance
- 2(a) Differentiate between grinding and honing.
- (b) Explain how hollow or shaped cutting tools and curved cutting tools can be grinded.
- 3(a) Discuss the operations involved in sharpening saw for cutting across the grain.
- (b) List tools required for the above operation.
- 4(a) Explain how a circular saw blade can be reconditioned.
- (b) List the tools used for the above reconditioning in 4a.
- (c) Explain the word “gumming” as applied to reconditioning of circular saw blade.
- 5(a) Identify a woodworking machine and explain how it can be dismantled.
- (b) How can the size of woodworking machine shop be determined? And what is the size of the workshop to be used primarily for woodworking?
- 6(a) Explain how the jointer knives can be honed.
- (b) When is it necessary to hone jointer knives?
- (c) What are the objectives of maintenance?