

DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
2012/2013 SECOND SEMESTER EXAMINATION

COURSE CODE: - MWT 521

COURSE TITLE: MECHANICAL ENGINEERING DESIGN

TIME ALLOWED: 2HRS 30 MIN

INSTRUCTION: Answer all questions

1. Explain the difference between MOCK UPS and PROTO TYPES
2. Discuss 3 steps in design problem solving.
3. Design a system of clamping two machine tool components to a milling machine for a keyway operation.
4. List and discuss 3 ways mechanical properties in machine components are expressed.
5. Explain the use of i. codes ii. Charts iii. Tables and iv. Standards in engineering drawing