



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

SECOND SEMESTER 2021/2022 SESSION EXAMINATION

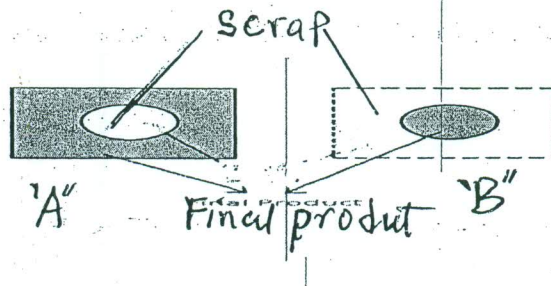
COURSE CODE: -ITE 582

COURSE TITLE: - Metal Stamping

TIME ALLOWED: - 2 Hours

INSTRUCTION: - Attempt four (4) Questions only

- (1a). What do you understand by the term four-slide stamping?
- b). Differentiate between progressive die and transfer die stamping operations
- c). Outline the three (3) distinct movements in fine blanking operations
- (2a). What is cold operation in sheet metal forming?
- b). Outline five (5) advantages of cold operation as compared to warm forming
- c). State five (5) disadvantages of warm operation
- (3a). What is piercing operation?
- b). Outline and briefly explain four (4) distinct method of piercing
- c). State the sequential process of punching and blanking of sheet metals
- (4a). Why the need for use of stamping lubricant during stamping operation?
- b). Outline four (4) relevant lubricants available for metal stamping operation
- c). What is the reason behind sheet metal forming simulations?
- (5a). What is metal stamping?
- b). Differentiate between stamping and forging operations
- c). Give valid reasons why you think operations "A" and "B" in the Figure below are not the same



- (6a). What is sheet metal bending as an operation in metal stamping?
- b). What does K-Factor and bending allowance stand for in sheet metal bending?
- c). Briefly describe three types of stamping presses

Good Luck

Moderated by  
Ayman  
01/02/2022