Al-Mustansiriyah University Faculty of Engineering Mech. Eng. Dept.



Subject: DRILLING TECHNOLOGY.

Time: Hrs. Class: 4th

Date: -12- 2018

QUIZ 1

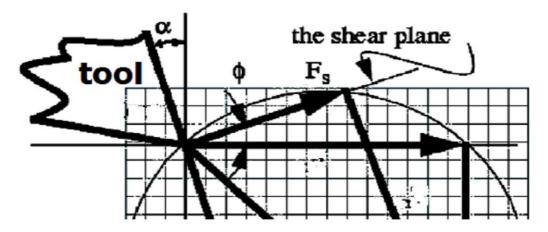
2018 - 2019

Q 1: A: Draw overall MERCHANT circle.

(MARKS)

Q 2: B: Use operating condition of depth, feed and speed; 2mm, 0.12mm/rev and 150m/min respectively. (1) Calculate the shear force, for DRILLING operation of steel (Shear Strength 260N/mm²). (2) Calculate the power required for operation.

HINT: F_{shear}= A_{chip X} Shear Strength. AND use the Merchant circle in Fig. power=F X V



Q2: Write the number and the correct letter.

