MANSOURA UNIVERSITY Faculty Of Engineering Dept. of Production Engg.& M/Cs Des	Forming Technology [4704] Preliminary M.Sc. Final Exam: 2-9-2013 Time Allowed: 3 Hours
Max Marks [100 Please, Answer the following questions:-	J Marks}]
rease, miswer me jonowing questions	
plastic metals? And explain the all equations	TERIA for Isotropic and Anisotropic elasto- of these criteria. [15] ds to measure experimental strain of forming [5]
Q2- [20 Marks]	
	atio? [5]
 Q3- [20 Marks] a-) What are types of shearing operations? b-) Draw fine sketch of force components in c-) What is the effect factors upon wear on b d-) What are the errors on sheared edge wor e-) Describe the fine blanking processes, and 	blanking tools? [4] kpieces? And how to prevent its? [4]
velocities in roll.	rolling stresses including frictional forces and [10] on stresses on the pressure distribution of the [5] [5]
flash?	filling die cavities? [5] al and normal stresses in closed die forging with [10] ess material and on normal pressure in the die- [5]

GOOD LUCK Prof. Dr Eng. Magdy SAMUEL