Exp. 2 Quiz	Group #1	27.05.2017
Name:		Duration: 15 min
ID:		Grade: /30
	Questions	
Part I: Understand		
(6 pts) Why did we use a dynamic braking resistor in the experiment? Was it required in the		
fan load experiment? Explain bri	efly, specifically considering t	the load type in this experiment.
(2 pts) How do you change the d	irection of rotation of a DC mo	otor?
(2 pts) How do you change the direction of rotation of an induction motor?		
Part II: Solve		
(10.1)	9 1 177/9	
(10 pts) Consider the crane hoist sis 50 Hz and the system operating		
What is the direction of the motor	or torque? Consider that upwa	rds direction corresponds to the
positive motor speed.		
At which quadrant does the motor	or operate?	

Draw a torque speed curve of the motor and the load torque. Show the operating point.

What is the name of the operating mode?

Part III: Think

(10 pts) Consider the measurements you took during the experiment. Propose a method to find inertia seen by the motor. Neglect inertia of the gearbox and wheel.