EE3306 DC Motor Prelab

Name: ______________________

1. Using the technical data for the 68HC11 provided online, determine (in the electrical characteristics section) what the output current is from the processor and list it below.

Output Current: __________________________

2. This current is not large enough to drive the DC Motor shown in the circuit diagram above that you will be using. In order to step up the current, you will need to design a switch that will control the output current sufficient to drive the DC Motor (for details about why the diode is used, see the lab handout). Hints:

   • You can use a Darlington pair for the switch

   • You will most likely need a +5V power supply

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PWM Output From 68HC11

1N4004

FE-260-18130
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