

Note: For this assignment, you should assume the branch prediction method is *predict not taken* unless otherwise stated in the question.

1. (6 points) Multicycle Datapath

In the diagram below, the multicycle computer from the course notes is executing the instruction `80 SUBI X20, X10, #8` in the EX stage. The EX/MEM register bank will be written to at the end of the clock cycle. In the figure below, there are six numbered **magenta** lines. On each magenta line write the value on the line just before the end of the clock cycle; if the value on the line can not be determined from the information given, write '?. Assume the register X_n contains the value $600 + n$.

