

An-Najah National University
Department of Computer Engineering
Microprocessors (10636322)

Assignment # 3 (ILO 1)

Assuming 8088 based system solve the following question:

1. Design a complete 8088 system hardware that has the following components

- a. RAM 256 K RAM that starts at address 00000H . You have only one 128K and 32K ICs.
- b. 12K8 ROM composed of 32K ICs ending at address FFFFF.
- c. 8x8 keyboard H
- d. 8 digit Multiplexed seven segment display
- e. Two stepper Motors. Motor 1 is 100Step and Motor2 is 200Step

Show clearly the following components:

1. The Address decoding for the Memory and I/O
2. The hardware required for each component.