



Reg. No. :

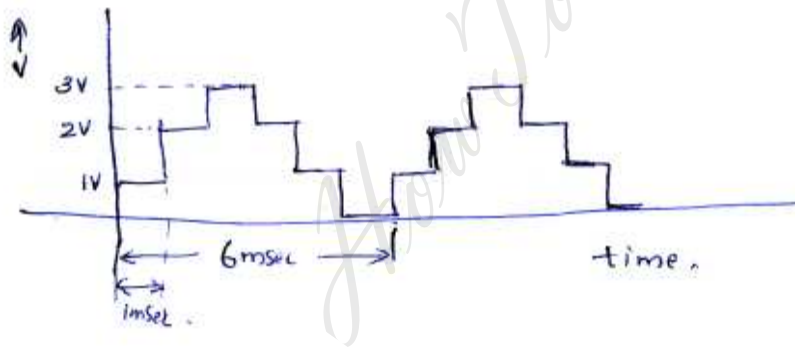
Name :

VII Semester B.Tech. Degree Examination, July 2009
Branch : Applied Electronics
LAB : MICROPROCESSOR LAB (A)

Time : 3 Hours

Max. Marks : 100

1. Write an ALP to separate odd and even numbers from a block of data and arrange them in separate blocks in ascending order.
2. Write an ALP to prove that $(a + b)^2 = a^2 + 2ab + b^2$ where a and b are 16 bit numbers.
3. Write an ALP to rotate a stepper motor 270° clockwise and then in anticlockwise by 180° continuously.
4. Write an ALP to generate the following waveform.



5. Write an ALP to separate odd parity and even parity numbers from a block of data and arrange them in separate blocks in descending order.
6. Write an ALP to multiply two 3×3 matrices.
7. Write an ALP to find the HCF and LCM of a block of 16 bit numbers.
8. Generate a 3ϕ square waveform with a period of 2 m sec and amplitude 5 V using 8255.