## DEMONSTRATION OF UNIVERSAL GATES RELIZATION OF BASIC GIATES USING NAMP GATES

Am: to implement ANDIORINOT gates Using WAND Gates.

Objectus: 10 strong te desigh and implementation of logic setes

Conforms: Bread board | kit, 7400,74002

Theory.

- a) An ok gate is a logic civcuit orth 2 or more inputs and are output to output of an ok gate is low only often an of its inputs are low. For our other possible input combinations to output is high.
- b) the output of an AND gate is high only den all at
  It's imputs one in high state. In all other cases,
  the output is low
- c) A wat gate is a one-output fore-imput gate. whose output is dways to comprehend of the imput.

  That is a low imput produced a high output of vice verga
- d) The output of a work gate is a logical (1) when all it's inputs are logice o' for all ofer input combinating the output is logice o'
- e) ne output of a NAUD gate is a logic (or when all it's imputs one a logic ? for all input combinations to out put is a logic ??

## Procecline

- a) test all te ICs monually / using IC teaster
- b) connect vcc and to ground
- () (onrect le cappropriale pins at le input foutput LEDS and Soul'Acles.
- d) verify to town table with respect to be clock.

## pesult

Different logic setter are constructed and feir

## CIRCUIT DIGRAIS

Realization of scher using WAND NOT gave AND GATE AND GATE











