

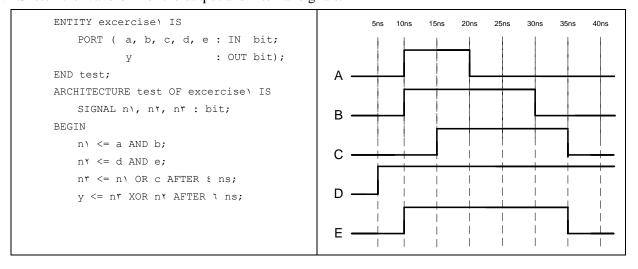
## Shahid Beheshti University Faculty of Computer Science and Engineering

## Computer Aided Digital System Design Homework No. \

\frac{1}{2}. Sketch the waveform of the output and internal signals.

```
ENTITY excercise\ IS
                                                                             30ns
                                                                                  35ns
                                                                                        40ns
                                                              15ns
                                                                   20ns
                                                                        25ns
   PORT ( a, b : IN bit;
           y : OUT bit);
END test;
ARCHITECTURE test OF excercise\ IS
   SIGNAL n) : bit;
BEGIN
   n) <= NOT b AFTER Y ns;
   y <= a AND n\ AFTER " ns;
END test;
```

7. Sketch the waveform of the output and internal signals.



 $\ensuremath{\mathsf{T}}$ . Sketch the waveform of the output and internal signals.

```
ENTITY excercise IS END test;

ARCHITECTURE test OF excercise IS

SIGNAL y: bit;

BEGIN

y <= NOT y AFTER Y ns;

END test;
```

 $\xi$ . Sketch the waveform of the output and internal signals.

```
ENTITY excercise IS END test;

ARCHITECTURE test OF excercise IS

SIGNAL y: bit;

BEGIN

y <= NOT y;

END test;
```

## Ali Jahanian