Tutorial Sheet-8 JEC103 (Q1) Draw the coscult of a 555 Times to implement monostable multivibration. Draw the waveforms and derive the expression for pulse width duration at output of 555 Times.

(92) Using a 10nF capacitor c, find the value of R that yields an output pulse of duration 100US in the

555 Times mono stable circuit.

(23) Draw the assuit diagram of a 555 Times to implement astable multivibrator. Draw the appropriate waveforme and derive expression time period of oscillations and duty ratio (94) For the 555 Times astable multivibrator, with a INF capacitor, find the values of RA and RB that results in an oscillation frequency of 100KHz and a oluty cycle (or ratio) of 75%