



## Answer 02:-

There are some deviation in the experimental output wave shape from the decired wave. Because of the the circuit's internal voltage drop which was not considered in the theory. Here, we were considering lower peak as OV and upper peak as Vcc on 6V. But, in the experiment from the digital oscilloscope we got 0.25 V as lower peak, and 5.85 V as upper peak. Due to system loss and internal hillen resistance (T becomes higher than theory which will result in flatter curve-

## Answer 03

The time period of the experimental wave is similar to the calculated wave.

For theoretical or calculated wave,

 $t_1 : 0.69 \times 0.2 \times 0.000 \times 4.7 \times 10^3$ = 0.69 × 4.7 × 106 × 4.7 × 103 = 16.242 ms

t2 = 0.69 x C2 x FL = 0.69 x 4.7 x 10 x 4.7 x 103 = 15.242 ms T= 11+t2

= 30'484 ms

Soword Hossain Rati 1810440 (03)

from Proteus,

We got Time period, Tp = 30.52 mg

-: He can gay that the time period of experimental wave are calculated wave is almost the same.

## Answer 04

It can be possiable to use the above multivibrator to eneate variable - frequency square wave if we use variable resiston: on a variable capaciton. The frequency of a square wave is dependent on the time period. In the multivibrator to and the both depends on the resistor and capaciton on the curcuit. By this way, we can create frequency square wave.

## Answer 05

We can change it by changing the value of the nesistances on capacitons.

