CSE350

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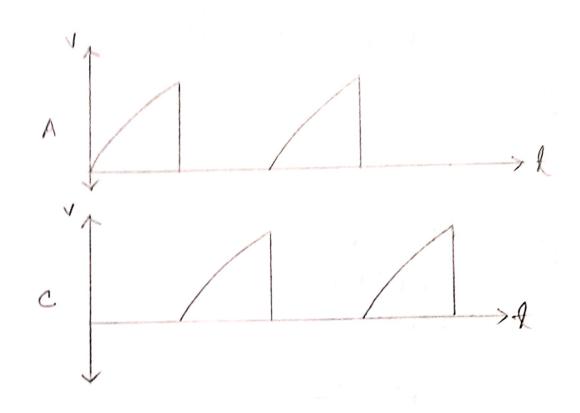
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1.



2. Yes, there is some deviation in the experimental output wave shape from experimental output was the desired wave. Our destreed output was the desired wave but we got the one square wave but we got the one with topered shape and that's because with topered shape and that's because with topered shape and that's because we have used copacitors in the circuit we have used copacitors in the circuit and we know that it takes time and we have apactors to get charged up or get

3.

$$k_1 = 0.69 \times R3 \times e1$$

= 0.69 × 4.7 × 4.7
= 15.2421 ms

$$\frac{1}{2} = 0.69 \times R2 \times C2$$

$$= 0.69 \times 4.7 \times 4.7$$

$$= 15.2421 \text{ ms}$$

$$T = k_1 + k_2$$

= 30.4842 mg

And from experiment we get,

t= 30.5 ms which is very close

to 30.4842 ms. So, the time period of

the experimental wave is similar to

the experimental wave.

4. It can be possible to use the above multiplibrator to create variable forguency square were generator. To change frequency of the square wave we need to change the free period of the square wave and to change the period of the square wave, we can charge the parameters of this circuit which are the capacitors and the R2 and R3 resistors.

5. the duty eyele of the circuit is the percentage of the time in a period when the output is high. We can change the value of the resistors and capacitors to change the time in a period when to change the time in a period when the output is high and that will change the duty eyele.

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-5600.0

+2300.0

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