

Green University of Bangladesh

Department of Computer Science and Engineering

Mid Assignment

Course Title: Electronic Devices and Pulse Techniques

Course code: EEE-203

Date of Submission:26.03.2021

Submitted to: Submitted by:

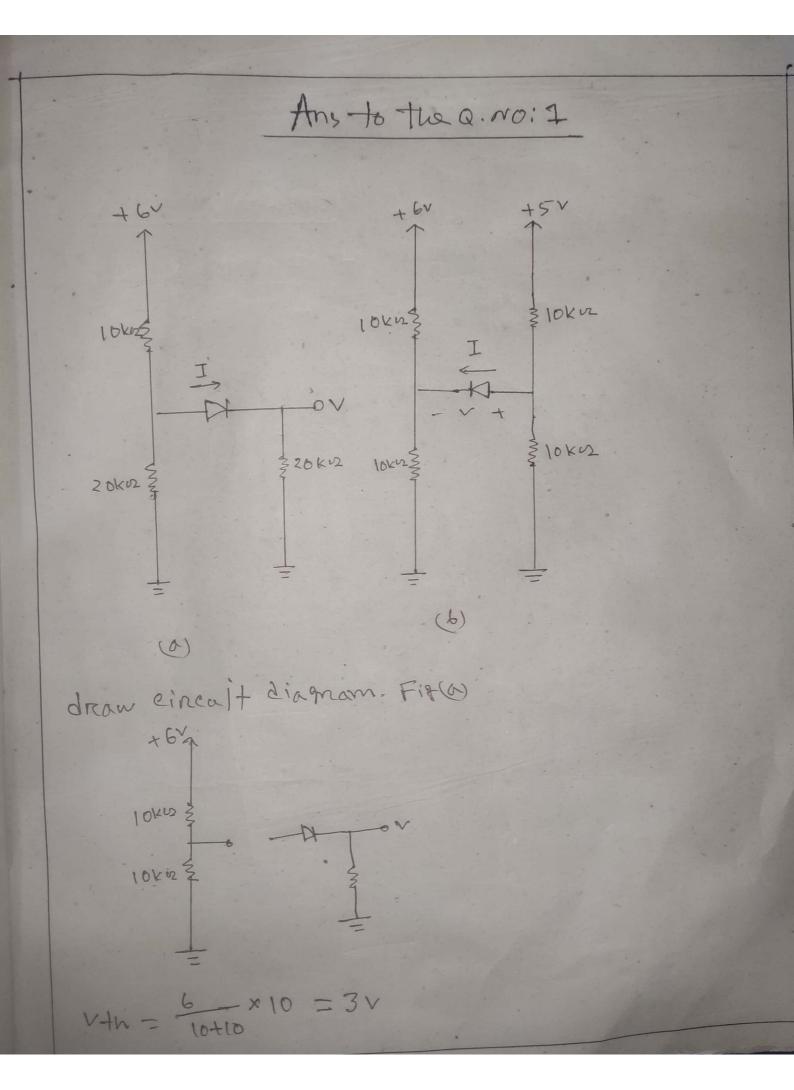
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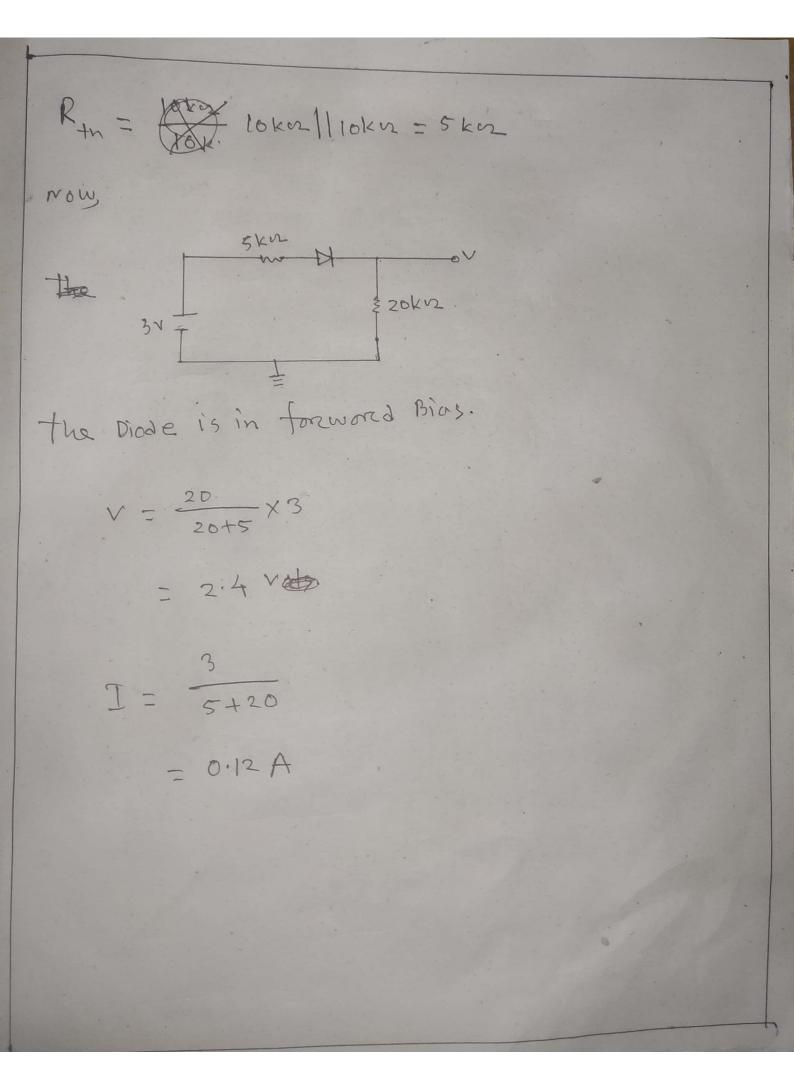
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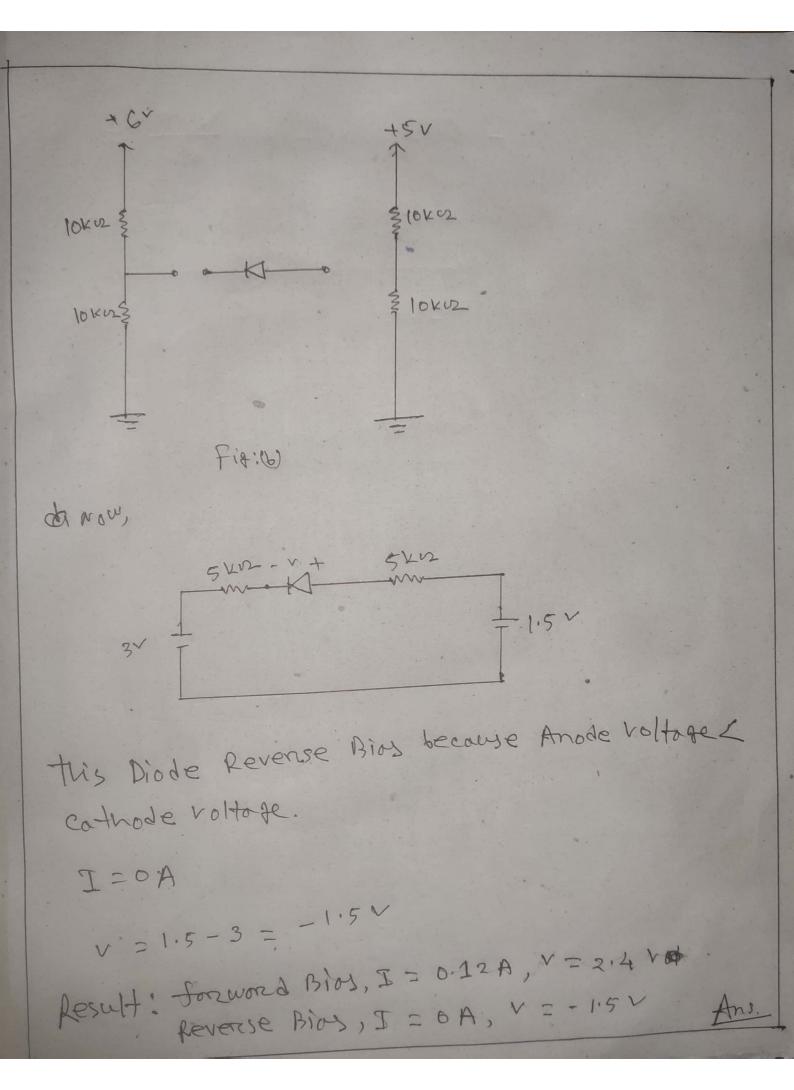
Department : EEE Section : 193DC

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Ans to the Q.NO:2

Criven that,

It's paper transistore is mounded. The emitter is connected to a positive supply v+ = +10v through RE. The emitter base junction will be forward biased.

VE = VEB
$$\sim 0.7V$$

Now, emitter connent,
 $\frac{V^{+}-VE}{RE} = \frac{10-0.7}{2}$
 $\frac{V^{+}-VE}{RE} = 4.65 \text{ mA}$

we know,

The collectors voltage will be,

and, the Bose connent will be,

$$T_{B} = \frac{T_{E}}{\beta + 1}$$

$$= \frac{4.65}{100 + 1}$$

Herre,

Result: voltage -5.42 and current 0.05 mA

