

**LISTEN AND ANSWER N°10 ON RECTIFIER CIRCUIT**

a)  $v_i$  is an alternating sine wave voltage. Give its mean value.

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b) What indication concerning voltage  $v_i$  does Red LED N°1 give ?

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c) What indication concerning voltage  $v_i$  does Green LED N°1 give ?

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d) Red LEDS N°2 and N°3 light at the same time as RED LED N°1. Why ?

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e) Green LEDS N°2 and N°3 light at the same time as Green LED N°1. Why ?

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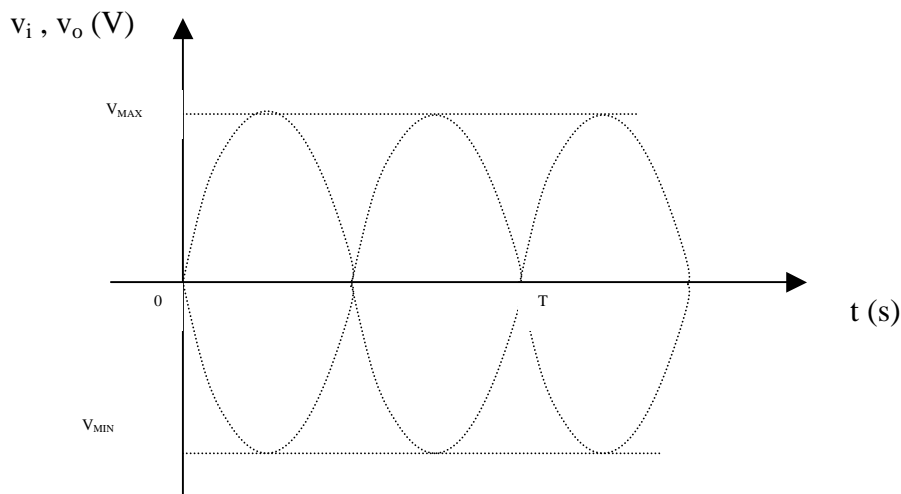
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f) Green LED N°4 never lights. Why ?

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g) Sketch the waveforms of  $v_i$  and  $v_o$ . ( use 2 different colours)



h) Give the name of the circuit

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