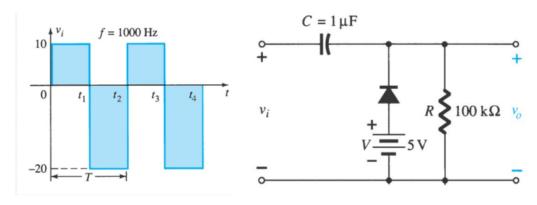
Digital Electronics and Logic Design (EC 207)

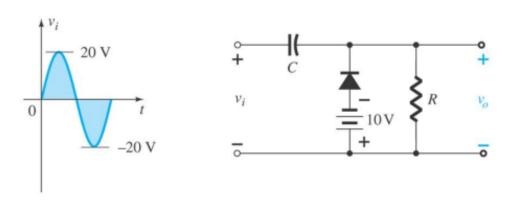
<u>2021-22</u>

Practice Sheet: 2

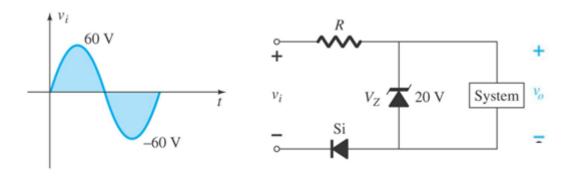
Q1: Determine the V_o of the following network for given input.



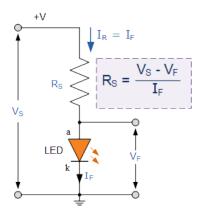
Q2: Determine the Vo of the following network for given input.



Q3: Draw the output voltage waveform for the circuit given below.



- Q4: A green colour LED emits light with the wavelength of 5490 Angstrom. Find the energy gap of the material used to fabricate the LED.
- Q5: Find the required series resistor to limit the current through LED to 20 mA with a forward drop of 1.6V when connected to 10 V supply.



Q6: Determine the V_0 and the series/diode current I_d . Assume the forward drop across LED and Si diode is 1.8V and 0.7 V, respectively.

