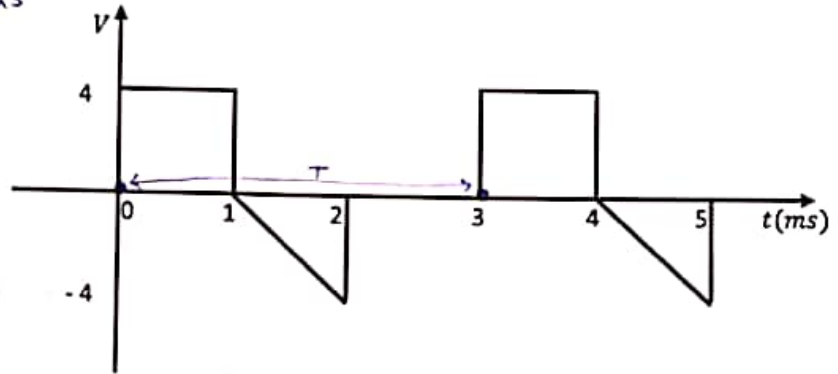




**Answer all the following Questions**

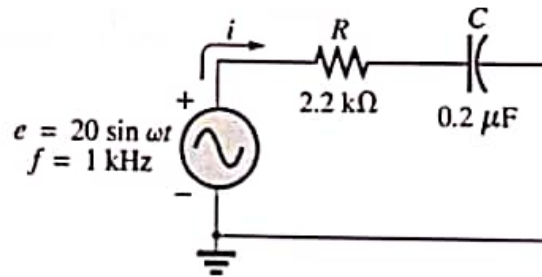
Q1- For the given periodic waveform, find:

- ✓ (i) The period ( $T$ )?  $3\text{ ms}$
- ✓ (ii) The frequency ( $f$ )?
- ✓ (iii) The average value?
- ✓ (iv) The RMS value?



Q2 For the given network:

- ✓ (i) Determine  $Z_T$ .
- ✓ (ii) Calculate  $V_C$ .
- ✓ (iii) Draw the phasor diagram.



Q3 Find the element or elements that must be in  $Z$  to satisfy power factor  $P_f = 0.83$  (leading).

