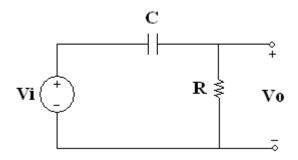
## JEE2330 – Spring 2025 Lab #4 Problem

A RC circuit like the one shown here was constructed in the last lab. A digital oscilloscope was used to measure the input voltage  $v_i(t)$  and the output voltage  $v_o(t)$ . A hardcopy of the scope display is shown on the back. Based on this scope display, answer the following questions:



1.	What input	voltage	would t	he DMM	read on	the DC	scale

$$V_{iDC} = \underline{\hspace{1cm}}$$

$$V_{iAC} =$$

$$V_{iEFF} = \underline{\hspace{1cm}}$$

$$V_{oDC} =$$

$$V_{oAC} = \underline{\hspace{1cm}}$$

$$\Theta =$$
 \_\_\_\_\_

9. What is the value of the capacitor C used here if 
$$R = 20 \text{ k}\Omega$$
?

$$V_C = \underline{\hspace{1cm}}$$

## Oscilloscope Display:

- 1) Input Voltage (Channel 1)
- 2) Output Voltage (Channel 2)

