

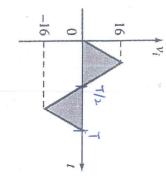
### Habib University

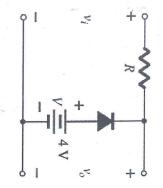
### Dhanani School of Science & Engineering **Electrical Engineering Department**

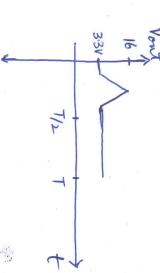
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Total Marks	Instructor	Exam	Section	Semester	Course
10	Dr. Ahmad Usman	Quiz-2a	Section 1	Fall 2022	EE – 211 – Basic Electronics

# Question - 1 (CLO 2, Points: 5+5)

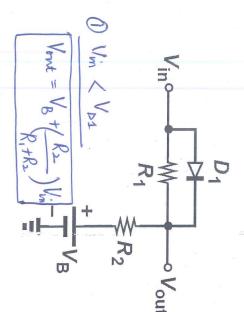
Determine the circuit. Clearly label your waveform. Assume  $V_{D,ON} = 0.7V$ . Vo for the following circuit shown below. Draw the waveform for





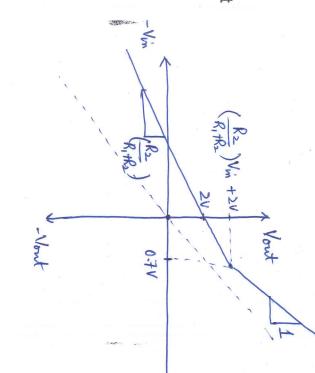


b) Draw the input-output characteristics of the circuit shown in the figure below. Use the constant-voltage model for the diode i.e.,  $V_{D,ON} = 0.7V$  and assume  $V_B = 2V$ .



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3.





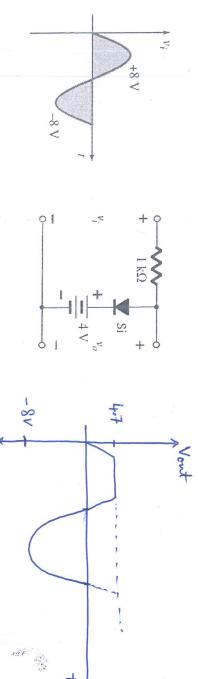
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7	Ouiz - 2b	Section 1	r Fall 2022	EE - 21
	,	1	2	EE – 211 – Basic Electronics

# Question - 1 (CLO 2, Points: 5+5)

a) Determine V<sub>0</sub> for the following circuit shown below. Draw the waveform for the circuit. Clearly label your waveform. Assume  $V_{D,ON} = 0.7V$ .



b) Draw the input-output characteristics of the circuit shown in the figure below.  $V_B = 2V$ . Use the constant-voltage model for the diode i.e.,  $V_{D,ON} = 0.7V$  and assume

