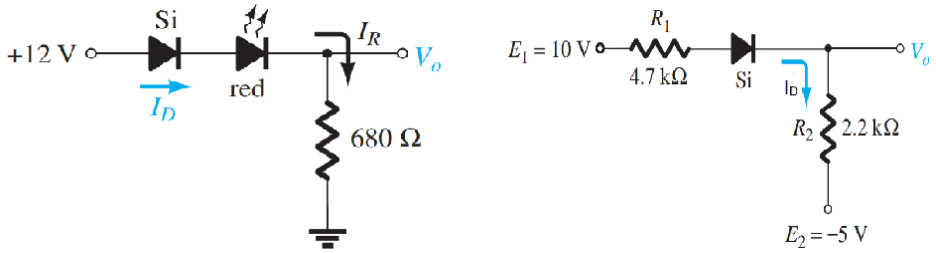
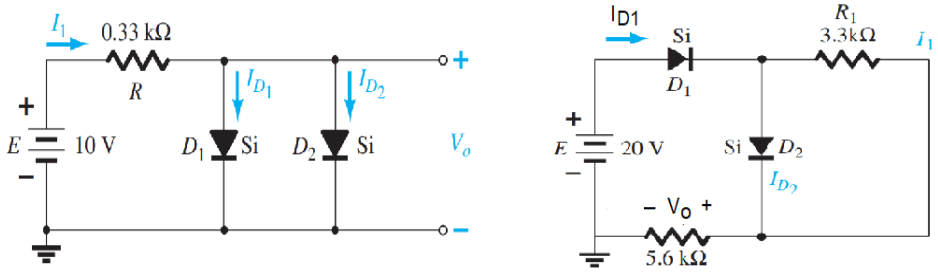
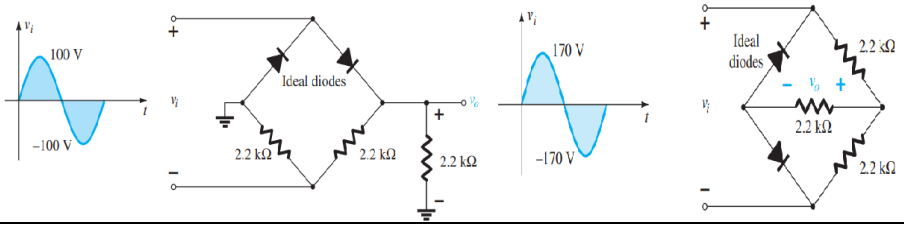
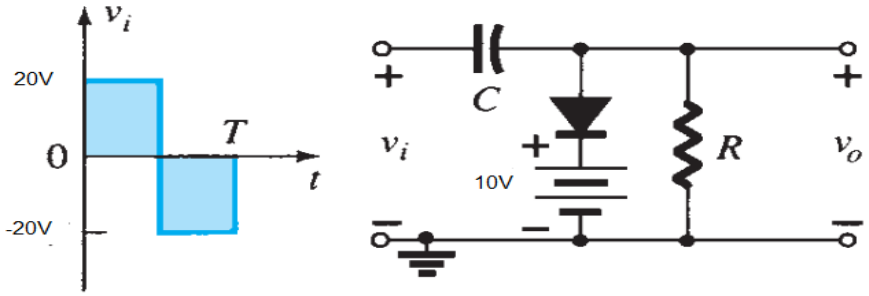
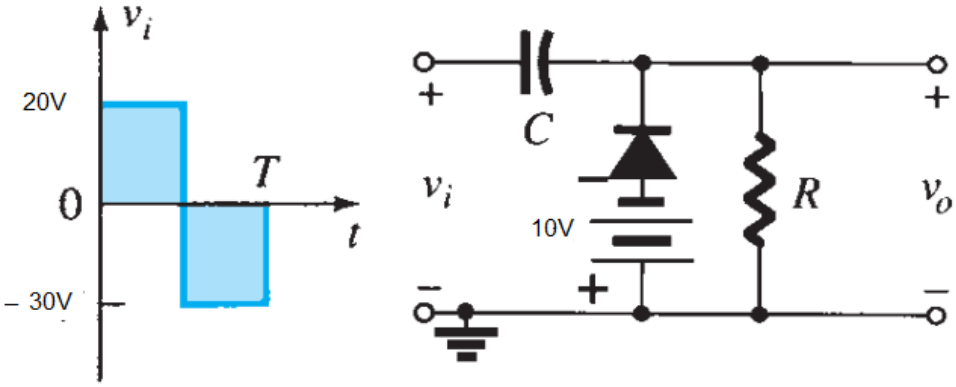
ABES Engineering College, Ghaziabad

Session: 2023-24 Semester: I Course Code: BEC-101

Course Name: Fundamental of Electronics Engineering

Assignment 2

S.No.	KL, CO	Question	Marks
1	K3, CO1	The reverse saturation current of a Si diode at room temperature is 5nA. Calculate the diode current at room temperature when the voltage across diode is 0.7V.	5
2	K3, CO1	Determine V_o & I_D of the following networks, (voltage drop across red LED in ON state=1.8v) 	5
3	K3, CO1	**Determine V_O, I_1, I_D , and I_{D2} for the networks given below..** 	5
4	K3, CO1	Determine the output waveform for the networks given below and calculate the output dc level and the required PIV of each diode. 	5
5	K2, CO1	Explain the working of P-N junction diode in Unbiased and Biased conditions.	5
6	K2, CO3	Explain the working of Bridge type full wave rectifier with proper circuit diagram and waveforms.	5
7	K2, CO1	Draw and explain the full wave voltage doubler with proper circuit diagram.	5
8	K2, CO1	Draw and explain the Voltage Tripler/Quadrupler with proper circuit diagram.	5

9	K3, CO1	Determine and draw the output voltage of the following networks. 	5
10	K3, CO1	Determine and draw the output voltage of the following networks. 	5

CO-Course Outcomes mapped with respective question
KL- Bloom's Knowledge Level (K_1,K_2,K_3,K_4,K_5,K_6)
K_1 – RememberK_2 – UnderstandK_3 – ApplyK_4 – AnalyzeK_5 – EvaluateK_6– Create