

Assignment # 02 Fall 2023

Program:
__Applied Physics
Class & Section:
_BSCS-1

_Course Code & Name:

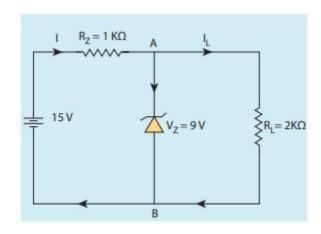
Duration till:
27-Oct-2023

Total Marks:

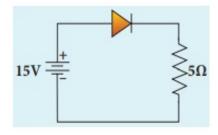
Date: -23-Oct- 2023

Attempt all questions:

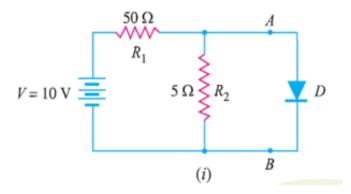
Q 1): Find the current through the Zener diode when the load resistance is 1 K Ω . Use diode approximation. (Mark 1)



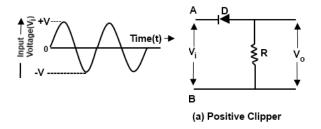
Q2): An ideal diode and a 5 Ω resistor are connected in series with a 15 V power supply as shown in figure below. Calculate the current that flows through the diode. (**Mark 1**)



Q3): Find the current through the diode in the circuit shown in Fig. Assume the diode to be ideal. (Mark 1)



Q4): Sketch the shape of the output voltage waveform for this "clipper" circuit, assuming an ideal diode with no forward voltage drop: (Mark 1)



*** Good Luck*****