Name: Md. Rifat Ahmed
ID: 1931725042
Course: EEE111L
Section: 7

Quiz

Answer to the Question No - 1

a) There are two types of rectifier circuits.

1) Half-wave rectifier
2) Full-wave rectifier

b) Using the capacitor in parallel with load resistor reduces the ripple in the output voltage giving us a much smoother curve..

c) Between the capacitor of values 0.22μF and 10μF the 10μF was more preferable because it gave us a more DC like output curve.

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Answer to the Question No-2

a) The name of the circuit of the output wave-forms of figure-1(b) is the parallel clipper circuit.

b) The name of the equipments needed to construct a & b circuits are:

* Diode
* Resistor
* DC Power source
* Trainer Board
* Signal Generator
* Digital Multimeter
* Oscilloscope
* Wires as required

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Answer to the Question No - 3

a) The point where the load line crosses with the output curve is the Q-point.

b) Diode O2 is a Zener diode and while doing the experiment we saw the V_z increasing gradually along with input voltage.

c) Diode 1 is a general diode which only works in forward biased condition.
Diode 2 is a Zener diode that works in both forward and reverse biased condition. But in a reverse biased it only works after reaching a certain point of voltage which is Zener voltage.

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Answer to the Question No - 4

i) A) +anode , - cathode

ii) D) Regulator

iii) ~~B) 50 Hz~~ C) 100HZ

iv) 0 volts but for silicon diode 0.7 Volts.

v) True

vi) B) ~~Voltage and current increases exponentially~~

C) Voltage is constant & current increases