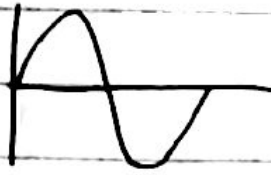
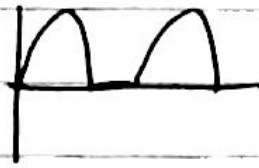


(Lecture
13)

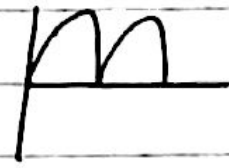
Filters



A.C



Half-wave
Rectifier

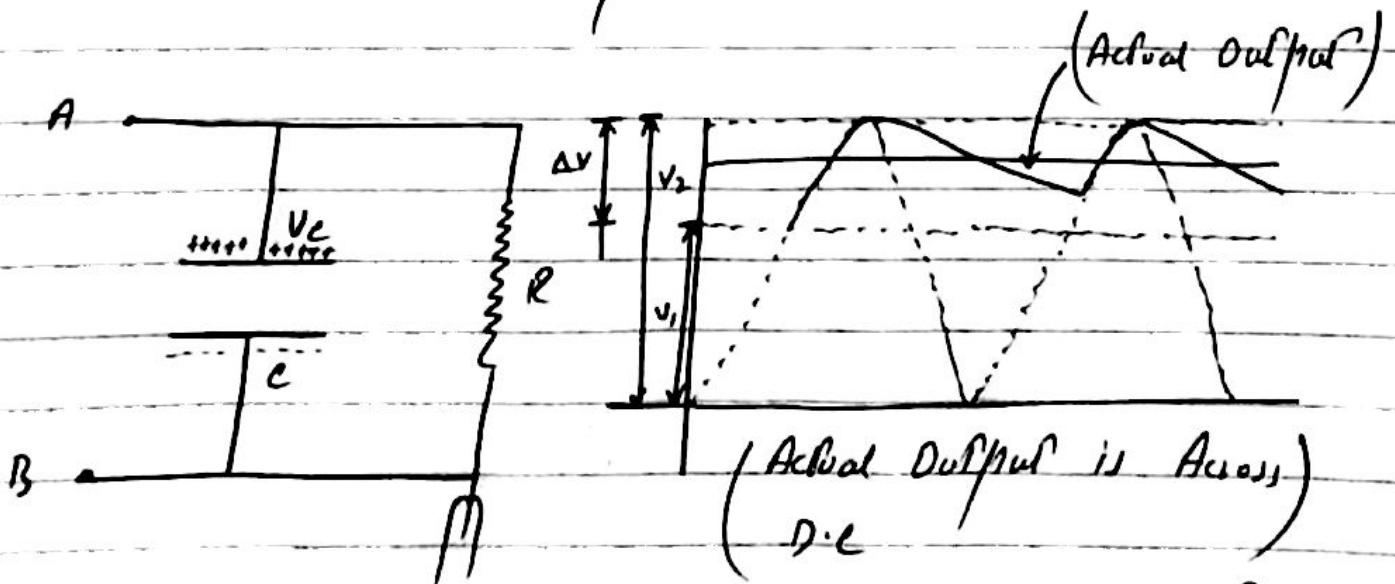


Full-wave
Rectifier

→ The output of pulsating rectifier is called pulsating D.C.

- Fluctuations never zero
- pulsation may zero.

Circuit of Filter :-



where ΔV is V_r (Ripple Voltage) $\therefore i = RC$
 V_{DC} is D.C Level.

γ (gamma) is ripple factor

$$\gamma = \frac{V_{dc}}{V_r}$$

Important Short Question:-

How can you make your filter more effective?

Ans:-

It can be more effective if we use capacitor of longer time constant, which depends upon $\tau = RC$.