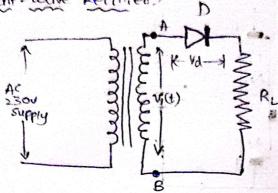
(1) Half while Rectifies.

And Half-wave Rectifier.

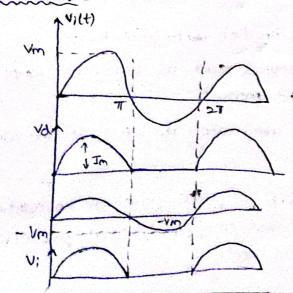


- -> In that wave sectifies, the purspace of the transformer is to step down the input ac supply.
- During the positive half cycle of input voltage, end A becomes positive (tve) with respect to B. This makes the challe forward biased and hence it conducts current
- becomes negative half cycle of input voltage, and A becomes negative (-ve) with respect to B. This makes the clicide beverse biased and it does not conduct current.
- -> It convexts bidirectional to unidirectional.

 Disadvantages:

-> the output is low.

- -> Fittesing is recluired to produce -steady current.
- : Ripple Frequency = 1/p signal Frequencu



1) 0-7 - Diodo ON

- Cussent Flours

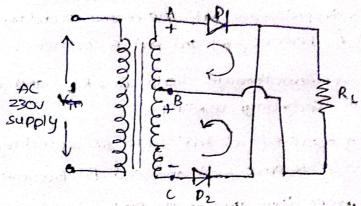
- Mox current floor weer vie un

(i) I - 27 + Diade - OFF

- No custent Hair

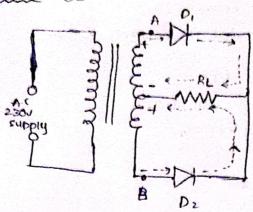
-> 1=0, vd = - Vm

- 2) Full wave Rectifier.
- & Full-wave Rectifier



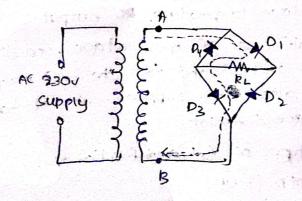
- In Full wove pectities (FWR), current flows through load in the same disection for both half cycles of Up ac voltage. This can utilise both holf cycles of Up are ac voltage to produce DC output.
- -) Fox positive half-cycles of input voltage, one diode supplies cuspent to load and foxe the '-ve' malificate of input other diode supplies cuspent to the load in the same direction.
- -> Trave are two types of full wave prectifier
 - (i) (entoe-TAPPED (FWR)
 - (ii) Full wave Bridge Rectifies

(1) centre-Tapped FWR:



- —) A centre tapped transformer is used to establish the Input signal across each section of the secondary transformer.
- The end 'A' becomes (tre) and end B becomes (-re).
- -) The current flows through diode Di, Rz, and upper half of secondary winding.
- -> During regative E ve) tak cycle of secondary voltage, the end 'A' becomes Evel and end B becomes (tue).
- -) The current flows though the Diode Dz . RL and buser half of secondary winding.

|ii) Full-wave Bridge Rectifiers



- The need of centre trapped transformer is eliminated in bridge sectifier
-) Awang positive (tre) half ryde of secondary voltage,

the end h' becomes (the) and end 'B' becomes (-ve).

- -> Therefore, the diodes p, and P3 conducts so that current thous from A'to B' through RL
- -) busing regative half cycle of secondary voltage, the end 'A' is (we) and end 'B' is positive (tre).
- -> Therefore, the diade of and by conduct, so that cuspent flows from 'B' to 'A' through RL.