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Expton

SENGLE PHASE FULL-WAVE RELTZFZER &

APM:
To construct a dingle prose full wave utilifier using diode and draw its performance characteristics.

APPARATUS PERMIRED:

S.No	Name	Range	aby
01)	Transforner	230/6-0-6) V	1
02)	R.P.3	CO-30)V	2

COMPONENTS REGURED :

SONO	Name	Range	aty
01)	Diode	2N4007	2
02)	Resistor	1KS2	1
03)	Bread	_	1
04)	Capacitor	cooper	1
08).	CRO	142-20MHz	1
06)	Connecting	-	Reg.

FORMULA:
Without Filter:

1) Vomus = Vin/Vz

11) Volc = 2Vm

111) Ripple factor = (Vomy)2-1

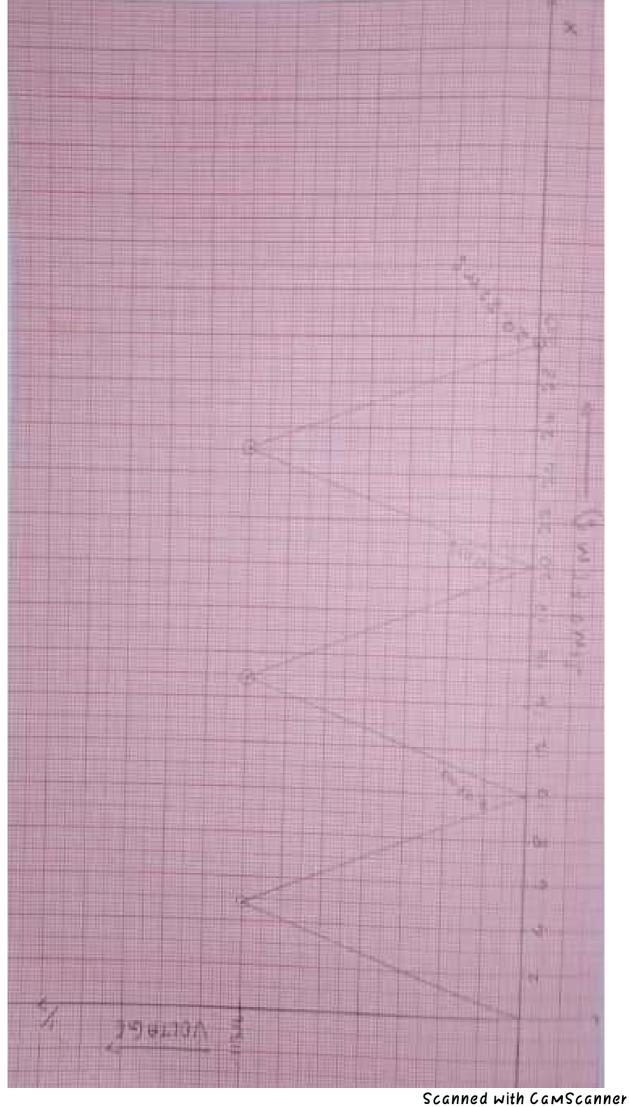
11) Ripple factor = (Vole/Voms)2 × 100

With Filter:

1) Vomus = Vopp/2V3

11) Volc = Vm - Vopp

11) Ripple factor = Vomus /Volc



PROCEDURE 8 Without gitter: 1) bûre the connections as per the wruit diagram. 2) A 230V, SOHZ AC Enprt given to primarly side of the transformer where the preses and of the severidary is connected to anode terminal of the diade. 3) observe the output across IK ohm lose with use of CRO. 4) Post its performance graph. With fifter ? 1) brive the connections as per the circult diagram. 2) A 230V, SOHZ AC Emput given to pranary dide of the Transformer where the proses and of selondary dide is connected to anose terminal of the divode. 3) conned the capacitor govoss the losa. 4) Observe the support alsoss the 1k Ohm Noas with use & CRO. 5) Plus its performance graph. A full wave rectifier was constructed using RESULT ? diodes and its performance characteristics while drawn.