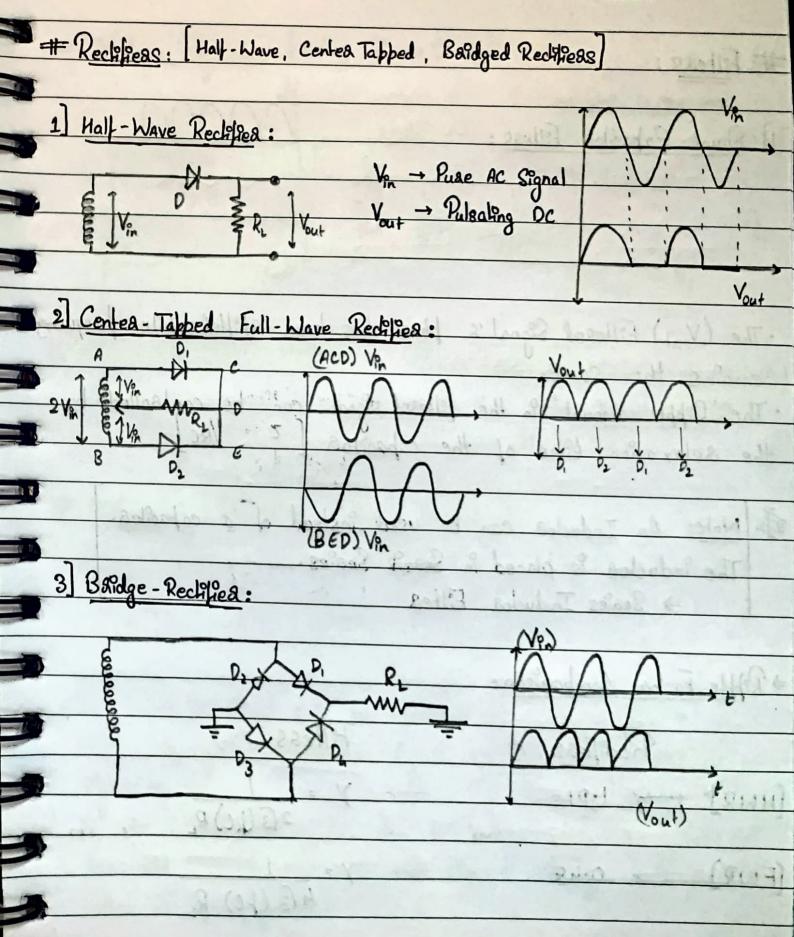
Unit -1 & Unit -2	RL -> Load Res	Colos P	m 1	
TA UNIT- 2	m → Max Vollag	K _L → Load Resistoa K _n → Diode K _n → Max Vollage [Gaaphical] The Max Chasent [Gaaphical] DATE Very Normal Normal Company (Gaaphical)		
	Im → Max Cuase Vx → Knee Voltage	LICAROLIO II	TE	
# Compaaison b/w Rectified Ciacuits:				
	Lincal	Z: 100 10 20 20 30 30 3	Sant Rapel of	
Pagameter Name	Half-Wave	2 (4 (4)		
	Reclipea	Centea-Tapped	Ballged	
	- minea	Full Wave Rect.	Recliped	
Voe [Dc Voltage]	N 11		Temp	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Vm - Vk)	2(Vm-Vk)	2Vm - 2Vx	
To [Oc Cuagent]	(last)		AVma-E	
Dc Loc Culdents	Z Im	2Im	21,	
RMS Voltage		π	2Im	
V RMS Voltage apten aechlicat	V _m	V _M	Va O x	
[RMS Cuapent]	2	[2]	V _m /21	
Trons liter seclipication	Im	Im a	Im	
,	2	121	<u>-m</u>	
7 [Ellicency]	40.6 R	81.2 80-2 R	10.0	
	(RD+RL)	(Ro+RL)	81.2 R	
y (Ripple factor)	1.21	0.48	(RD+PL)	
	97	0'48	10.48	
PIV Raling	> V			
Aung	> V _m	> 2 Vm - VK	> Vm - 2VK	
	9,000	History of Feedo	अविषयो ४ ८	
(0/1)(0)				
# Regulated Power Supply: [Daw Signal Graciphs]				
(21) 0				
AC Thansloames	Redgies	1911-ea Regulate	V. A.	
Line Line		111tea Regulate	/ *	
PES				

#Temperalmae Effects on Diodes:	
	6
* Forward Diode [Biased]: * Reverse Diode [Biased]:	
REVENSE VIOLE L'EMBEUT.	5
Temp & I Temp & I saturation	
2.5mV/1c (Tsat) = (Isat) (2)10	
Men	
* Shockley's Diode Cuasent Equation: In + Orode Cuasent	9
Isat - Sahaalion Chasent	
T Vo - Diode Vollage	
$T_0 = (T_{sat}) e^{\frac{V_0}{\eta V_r e \epsilon}} V_0 \rightarrow 0$ ode Voltage $V_0 \rightarrow 0$ The small Voltage	
7 - Theophy Loclass.	***
-> Theamal Voltage: K + boltzmann const. => for non-conducting Sticon = 2)	
Theamal Voltage: KT	
9 9 - Chadge	
= 1.6 × 10 C	
= Extra Formulae:	
Y [Ripple factor] = (Varpple) ams = Ioc	
- 4/3 Ctc)	
$V_{n} = V_{m} - I_{DC} $ V_{CC}	
4 (pc)	A.C.

(PES



# Foligance. Half- blave, Center Tapped, Bardged Redspare : 289/19 #			
TO TEST IN THE TOTAL	Va		
1) Shunt Capaciloa Filteas: [Dc Filtea]			
-1 Shunt Capacitod Filteds:			
1 10 2			
Von Chin RL & Vout			
Vout			
· The (Vout) Filtered Signal's phase has been shifted while frequency			
Demains the same.			
· The 'Ribble amount' in the filtered signal can be contabled by			
The Ripple amount in the fillered signal can be contabled by the aelaxation time of the capacitos [= 1/Rc]			
THE DELLA STATE OF THE STATE OF			
Note: An Inductor can be used instead of a capacitor.			
The inductor is placed in Seach Series.			
→ Seases Inductor Filter			
→ Ripple Facha Compasison:			
(12	Filters (7%)		
Reclifieds (Y)	Tipeds (Tro)		
[HWR] - 1.21 -	→ Y = 1		
	2/3 (JC) RL		
(FWR) - 0.48	→ Y= 1		
	4/3 (fe) R		
PES			

