











waveforms

· IMSTITUTE	
- MITTURE :	A THE DESTRUCTION OF THE PROPERTY OF THE PROPE
	Name Dhrur Bagara Branch CSE Sem 1
	110.
	Date
	the switch conducts the inductor current and the
	slipede by conducts the inductor current and the
	The reporte vaser. The sall all
	sauses as a linear increase in the inductor current
	sauses as a linear increase in the mountain
	When the switch is turned off, because of this
	1:00 1000
	inductive energy storage i, continues to from visit
	for a time duration (1-0) I until the switch is
	for a time diviation (1-0) I will the sweet
	turned on againt.
	Volt second Balance equation -
	Voca second second
	11th to DT & V-Vo
	Voltage upto time DT = Vs-Vo
	Voltage upto time DT = V3 V0 Voltage for time (T-DT) = D-V0 = -V0
	(V <sub>5</sub> -V <sub>0</sub> ) DT = - (-V <sub>0</sub> ) T(1-D)
	¥/ ( ¥ 1
	Va D - Vo D = Vo - Vo D
	IV. = Vs D volt second balance eg ".
	V = outlant valtage
	V <sub>0</sub> = output voltage  V <sub>2</sub> = input voltage  D = Duty ratio / Duty cycle = Ton = Ton  Ton + Torr
	Vy = mpin varing
	D 2 Duly rand / Duly grit Ton Ton Ton
	IN TORK

Observation Table -

Oly	ervation Table	n. + Patio	Output voltage (Vo)
Jr. No.  1. 2. 3. 4. 5. 6. 7. 8. 9.	Input voltage (Vs)  24 V 24	Duty Ratio  15%  20%  30%  40%  50%  60%  70%  90%  90%	5.20 V 7.2 V 10.4 V 12.8 V 14.8 V 16 V 17.2 V 18.4 V 20.4 V 21.6 V

For Re = 36.6 SL Youquency = 2 KHz.



## TECHNO INDID N ID INCTITUTE DE TECHNOLOGY

Name	NO INDIA N Dhrun Bag	JR INSTITU	CSE	Sem
Roll No				1- 16-
Result	- We have buck con	ratio on co	werted or	the DC-DC and observed that voltage.
		1 been 2	x XX	
		V 25 11		
~				