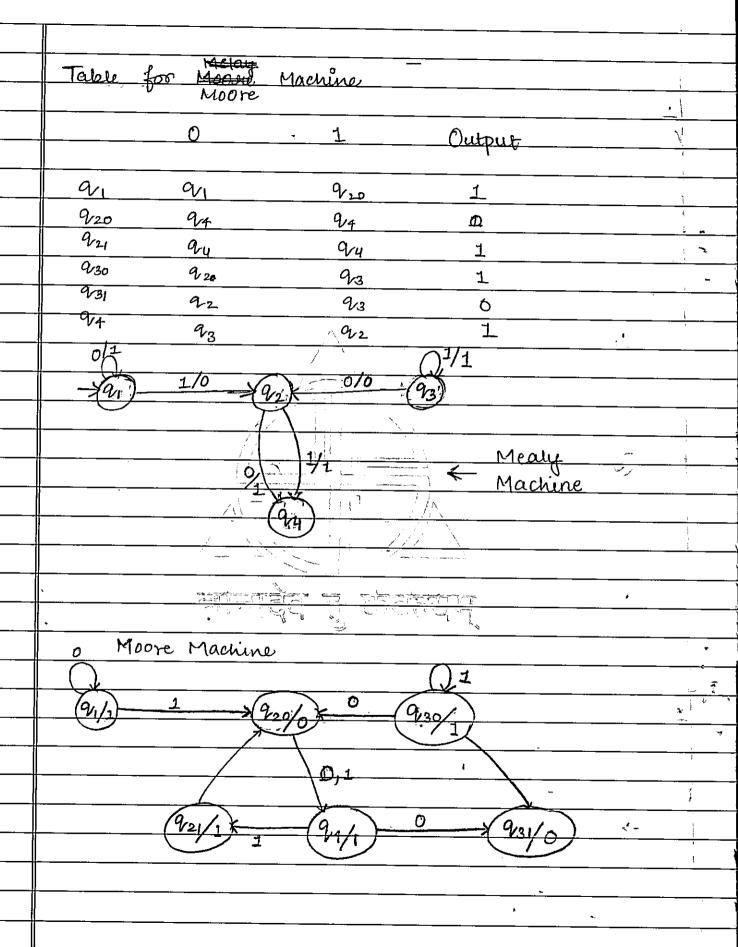
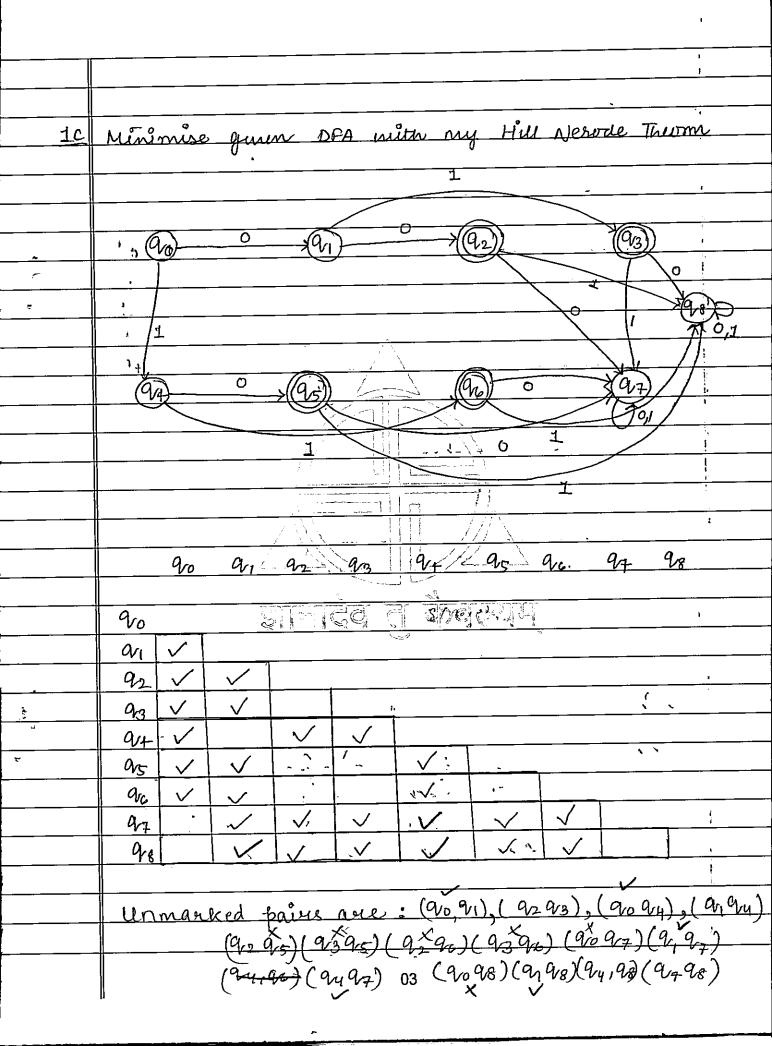
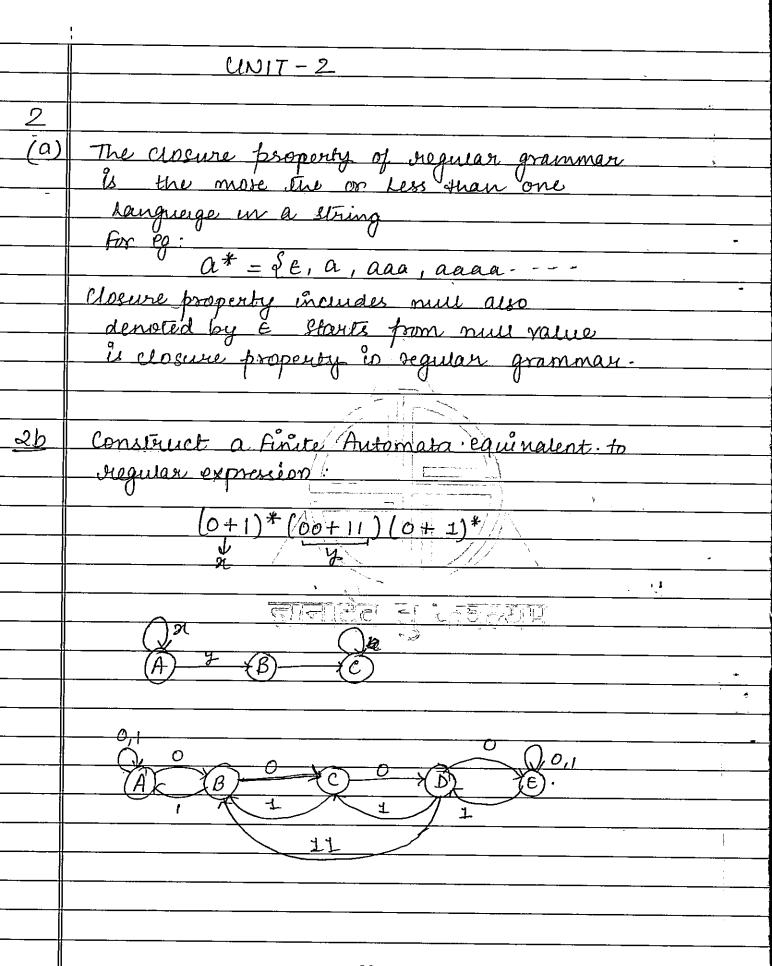
	UNIT-1						
					•		
(a)	(a) Differentiate between NFA & DFA						
	00						—
	N	FA	DFA '			,	
7.	It is N	Ion-detern	rimstic	1.	It is det	erministic	
*	1. It is Non-deterministic 1. Finite Automata. fi			Finite Auto	finite Automata		
						<u> </u>	
ي.	2. It has more than d. It has only one state				one state		
	one state in clate						
	10						
					<i>§</i>		
	NFA CO	honont ha	REACO F	3 €	THURS BEA (en be NFA	
		NYVIVO V _IZE "_	<u></u>				be
	 	but at a not all NFA be					
				·			•
<u> 1</u> b	Construct a Moore Machine Equivalent to Melay						
e <u></u>	Machin		1		— Copy Care to See 1	. (
	- Cacula	,	=0		.a = 1		
	-	State	Output		State	Output	
	→ Q1	9,	1	i	9/2	0	
	92	94	1		9/4	1	
	9/3	92	0		9/3	1	
	94	9.3	0		9/2	1	
	V4-	<u> </u>					

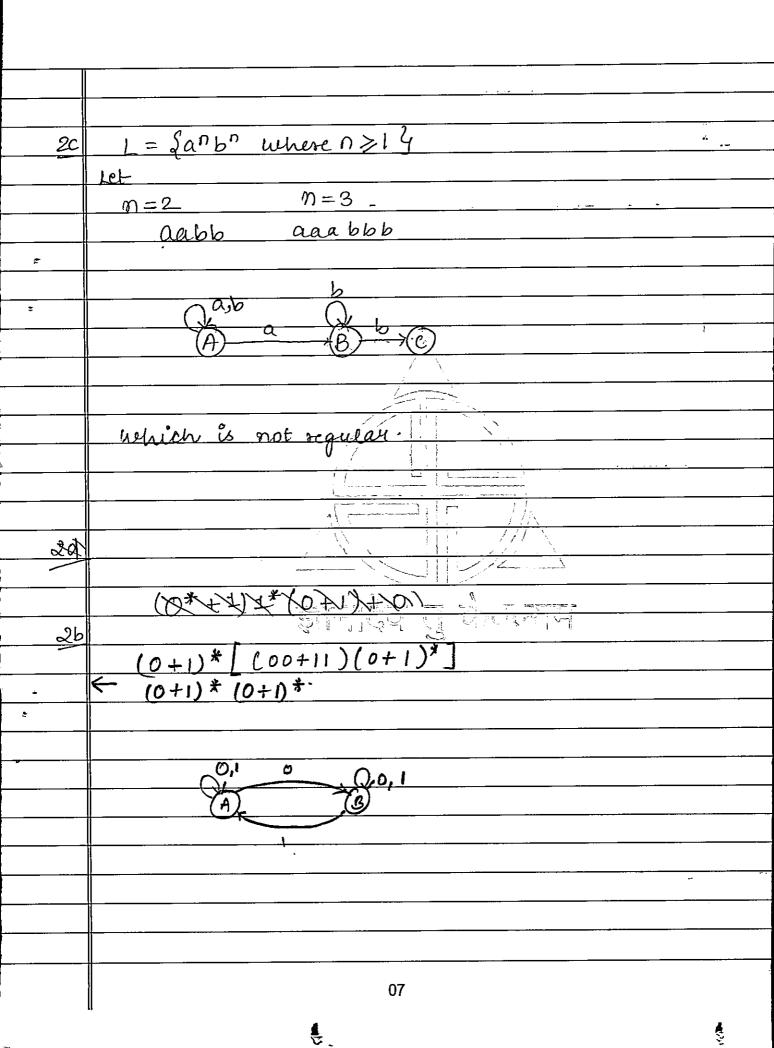




[ao a1) / 9493 is nained then we will mask go'g · also v (9293)_ $\frac{8(9210) = 97}{8(9310) = 98} \times 8(9311) = 98$ (07,98) is unmasked 8(90,0) = au 18(90/1) = au mark this also V (9494). 8(9,10) = 92 8(9,111)=923 8(94,0) = 95 · S(94,1) = 96 It is unmasked.

• · · · · ·	
	9295
	$-\frac{8(-9z_10)}{-8(9s_10)} = \frac{9}{29} \frac{8(9z_11)}{8(9s_11)} = \frac{9}{29}$
	cennasked
	a 97
•	8(91,10) = 92 8(9,11) = 93
	8·(97,0) = 97 -8(9/7,1) = 97 1-
	- masked.
	(ay ax) masked num same process.
	(ay, 98) marked 1
	(a1, 28)
	10 0 10 0 0 10 0 0 0
	Unmasked Paine and (91,94) (92,95) (92,93)
<u></u>	
	- (90,9x) (-9798)
<u> </u>	Sp Aloese, age the DFA-
	So these age the DFA.





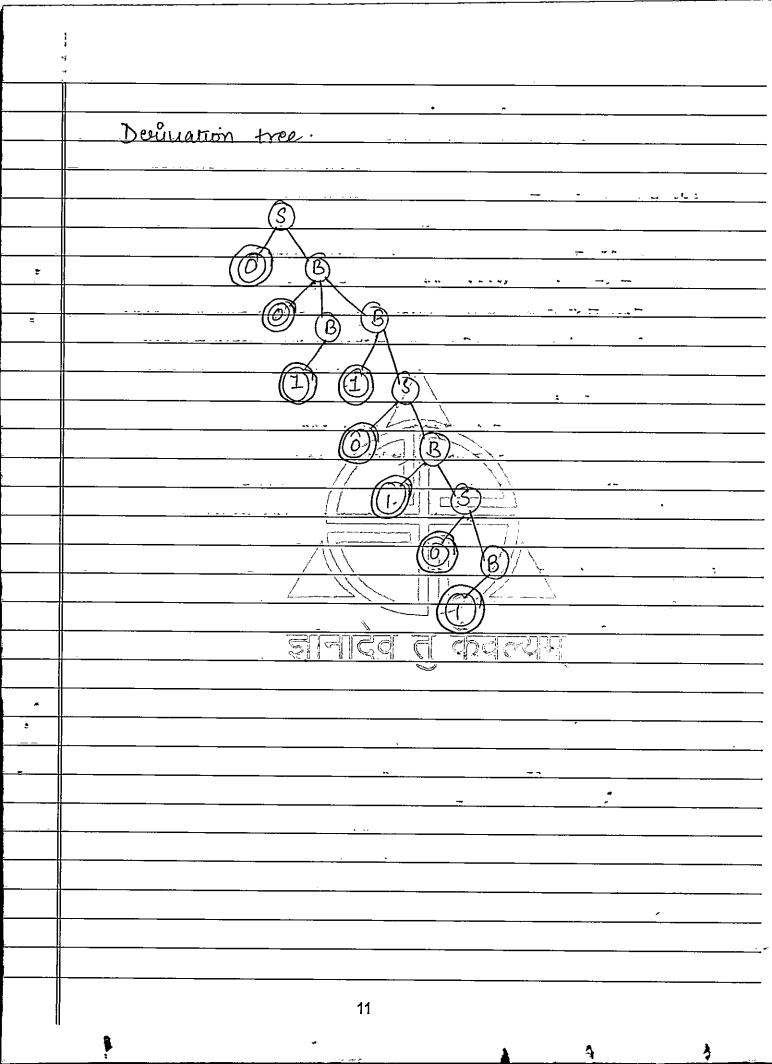
	UNIT-3	
•	-	-
39){
1.	001,100,010,111,1,	
		
	L= \ 001, 100, 010, 111, 1, 10010013	
ચ -	1-8 700 000 10100 100100 0101001	
_ ~ ·	L= \$, 100,000,10100, 100100,010100 }	
		· · · · · · · · · · · · · · · · · · ·
36	Explain chomsky classification of	
	Granman:	
		<u>.</u>
And.	The coas chomsky ceaseification of Guannas	r
·	are i	••
		•
1 .	In the grammato Photes is town formand symbol present en even number.	3
	S->AB	
2.	The transformation of the second	· <u>-</u>
	If the variable strings present in the hanguage that nein be accepted iff one	<u> </u>
	1s present	
	S → a S → AB/a.	_
	$S \rightarrow a$.	· ,
		· · · · · · · · · · · · · · · · · · ·

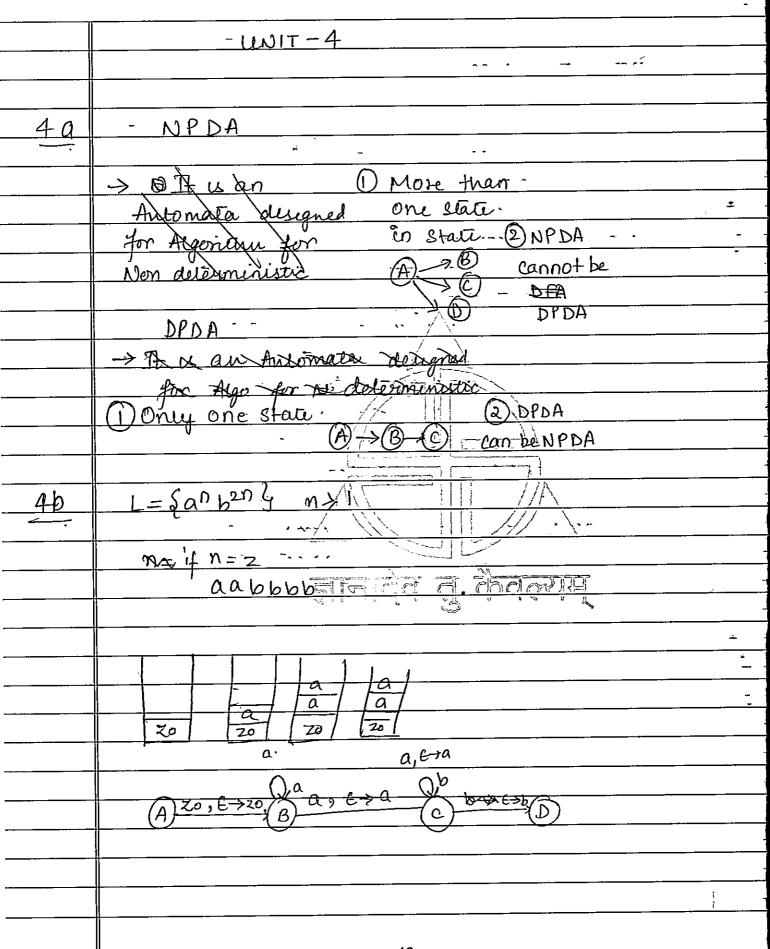
3. If the grammar not coming under the Chomsky classification—then we have to convert the grammar in Red" Proporties i.e., To armore mul Production 4. After doing these process we find that grammar convented into Non-terminal values. 5. A Right side of Left Gar Then ut is not chomsky from 4 > 2 5 FCO C COCAR		
to convert the grammas in Red Properties i.e., To move mul Production 4. After doing these process we find that grammar converted into Nen-terminal values. 5. A Right side on Keyt Side 1 A A A A A A A A A A A A A A A A A A		
to convert the grammas in Red Properties i.e., To move mul Production 4. After doing these process we find that grammar converted into Nen-terminal values. 5. A Right side on Keyt Side 1 A A A A A A A A A A A A A A A A A A	3.	If the grammar not comins under the
to convert the grammas in Red Properties i.e., To move mul Production 4. After doing these process we find that grammar converted into Nen-terminal values. 5. A Right side on Keyt Side 1 A A A A A A A A A A A A A A A A A A		Chomeky classification - then me have
4. After doing these process we find that grammar converted into Nen-terminal yalues. 5. Bo A: 5. Ma Right side on Kept. Side. 12. May 1. M		to convert the aromanas in Real Proporties
4. After doing these process we find that grammar converted into Nen-terminal yalues. 5. Bo A: 5. Ma Right side on Kept. Side. 12. May 1. M		i. P. To a marie mill. Productions
5. Bob. 5. Maght side on Kept Gide 12. May Az		TO STATIONAL TOURNAMENT
S. Bob. S. Bright side on Kept Eide A4 > A2 A1 Then it is not chambles form.		
S. Bo A. S. Bright side on Kept Eide A4 > A2 A1 Then it is not chambles form.	A.	Attack days here burges and days
5. Bob. S. Bight side on Kept. Side. A4 > A2/A1 1 > m then it is not chamsky form.	'	meso worky these process we find the
5. Bob. S. Right side on Kept. Side. A4 > A2/A1 1 > m then it is not chamsky form.		grammas inversed into ven-terminal
5. Aght side on Kept Cide A4 > A2/A1 3 , 4 then it is not chamsky form		values:
5. Aght side on Kept Cide A4 > A2/A1 3 , 4 then it is not chamsky form		
12 A4 > A2 A1 1 m / mot chomsky form	TÎ .	
12 A4 > A2 A1 1 m / mot chomsky form	5	· B Right side on Keyt side
then it is not chamsky form	- -	//.< \ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
then it is not chamsky form	 	$\triangle A_4 \rightarrow A_2 A_1 \qquad \Box$
then it is not chomsky form.		
then it is not chamsky form		1>m
15 m 4 2 51 FICO 1 COCKIA	<u> </u>	
4>2 ज्ञानाद्व तु क्वल्यम्		ism
		4>2 ज्ञानादव त कवल्यम
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		-
	 	
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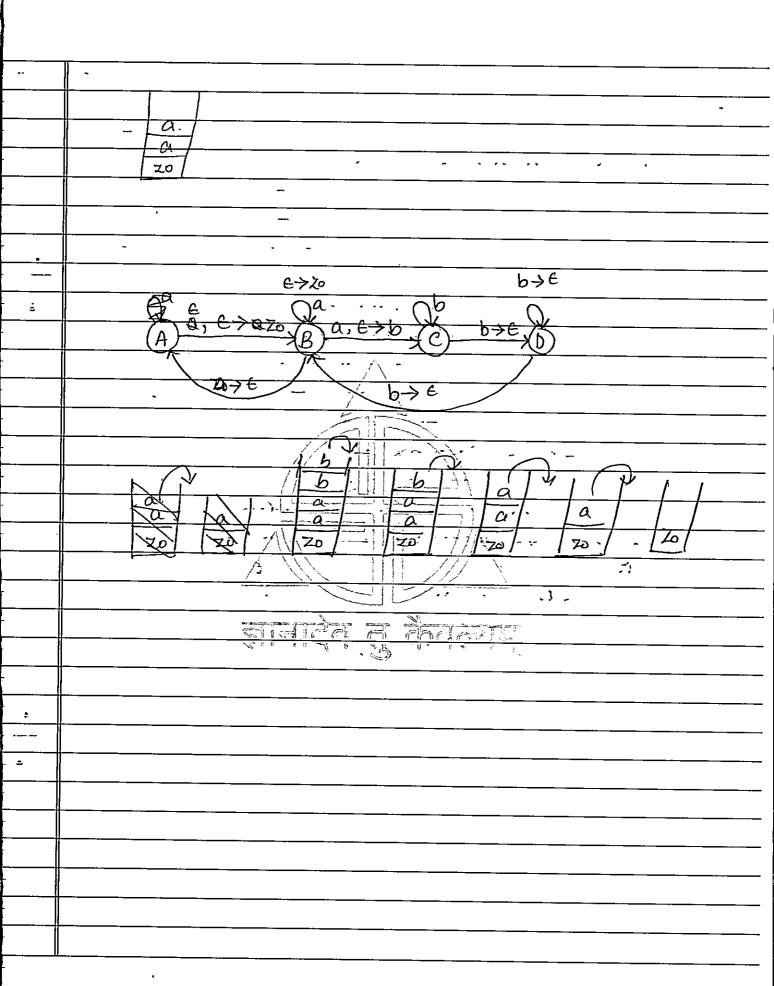
34	
	S -> OB/IA
	$A \rightarrow 0/0S/1AA$
	B > 1/15/0BB
	- LMD
	S > 0B (by B > 0BB)
	S → 00 BB Cb
	S → 00 BB Cb S → 00 1S (by B→1S) S → 00 1 B1 A (by B→1A)
	S>00181A (by 8 > 1A)
	S > 00110S (by A > 0s) S > 001101A (by S > 1A)
	S > 001101A (by S > 1A)
	S> 00110108 (8 > 0S)
	S-> 00110101A B
	S-3 001101010 / A->0
	RMD - Choloro
	$S \rightarrow IA$
· · · · · · · · · · · · · · · · · · ·	$S \rightarrow 11AA$
	S→ 11 A OS
	S > 11 A 0 OS S > 11 0 0 0 B
	S-> (10001S
	S > 1100010B
	S-> 11000101

10

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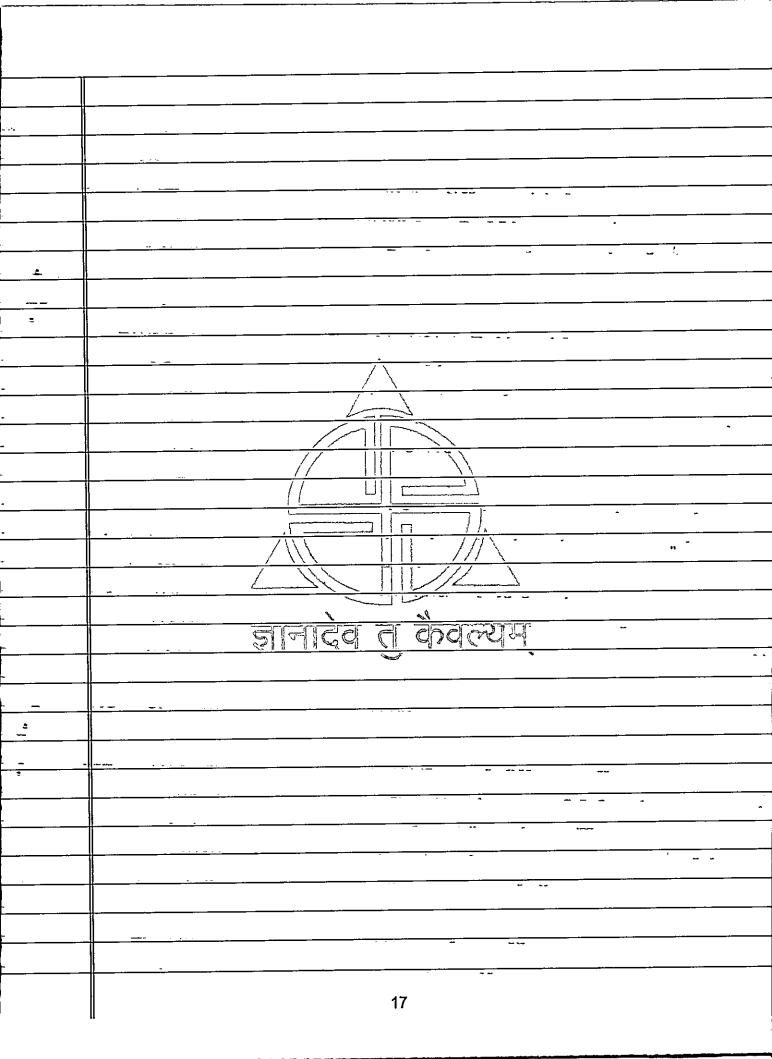


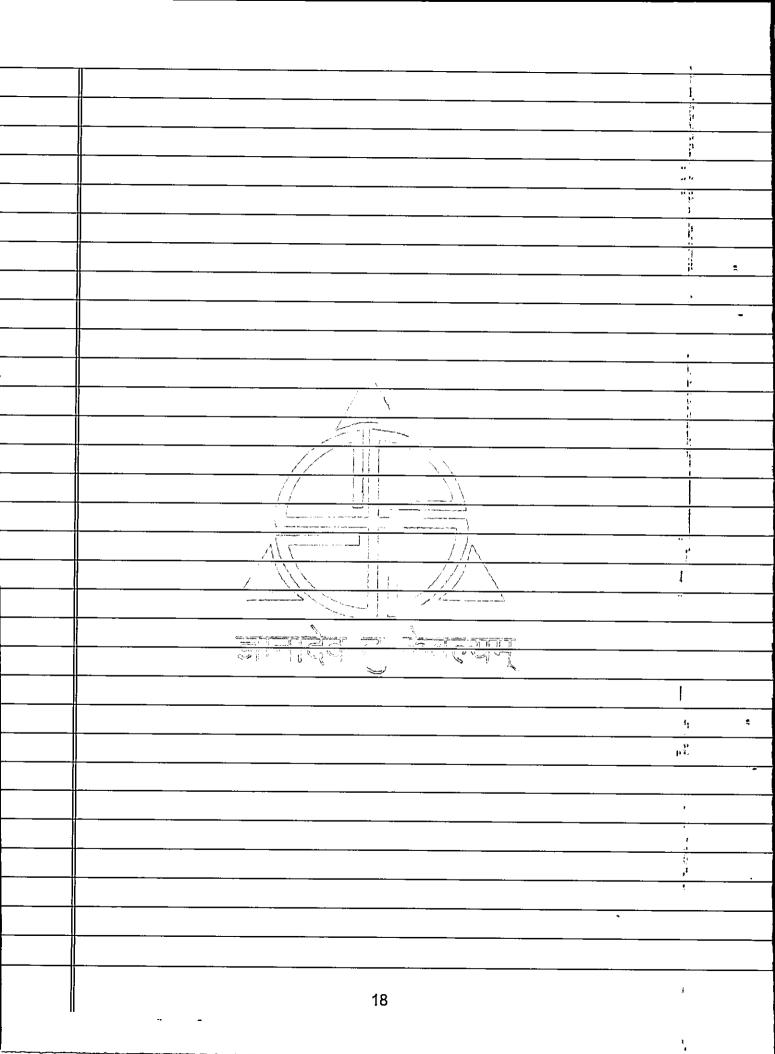
4c L= Sanbncn y where n≥0 0=2 aabbcc ₽ ø a, a>R b,b-R CoE->R a,a>R 14

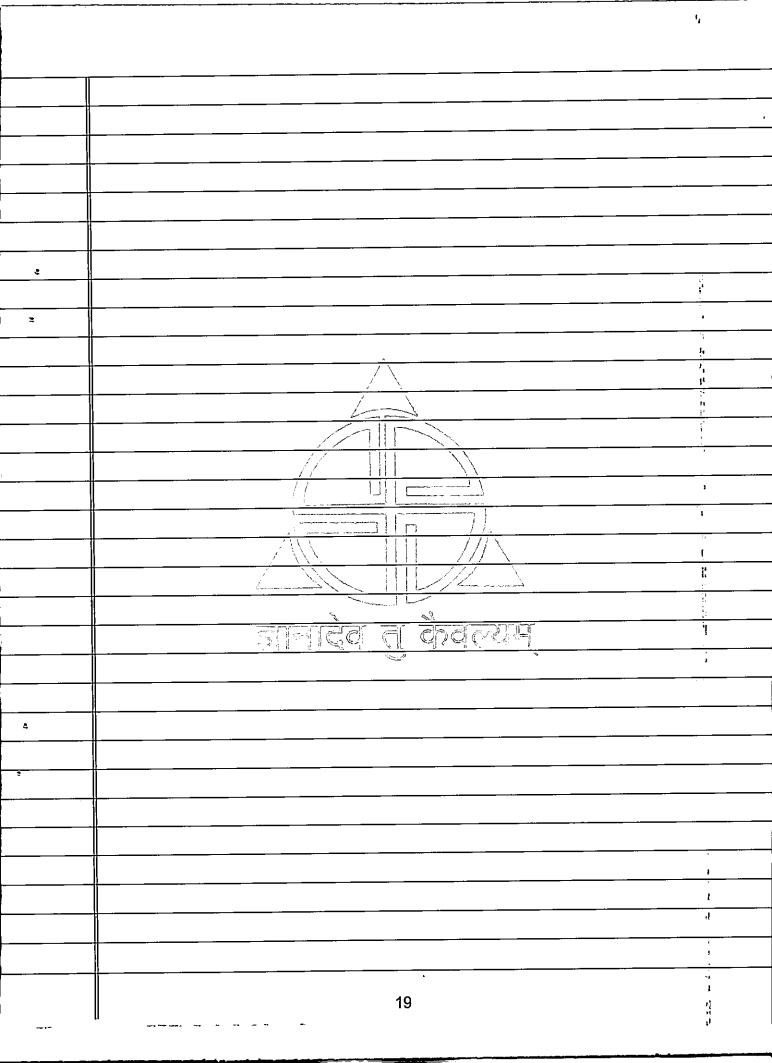
	UNIT-5
	59 Partial Function are the Lunction
-	about its applicable of for
	atmost element: If we put value it become but undefined undefined.
•	Dut undefined.
	Initial Function: It is applicable for
	(1) XOMO A) X(0) = 0
	(1) $\angle OSID + O$ 2) Successor $F^{0} \rightarrow S(O+1) = O+1$.
	3 Injenute FP => Lat, aa', aaa
	5d
	Ans The warking of Turing Model /
	The state of the s
•	made ne de Comparto Tarante
	Turing machine the changes in the machine 1s Computation
	Twing Model of Compidation
_	Dear Tive of the last of the l
	Aug Turing Machine is the Mathematical
_	Computational Model. It is a type of
	all which controls all the data
	manipulation un a device, or un a computer.
	In 1930 Turing Machine is Launched.
	It is used for Data manipulation in the device. It controls the system.
	the device. If controls the custom.
ŀ	

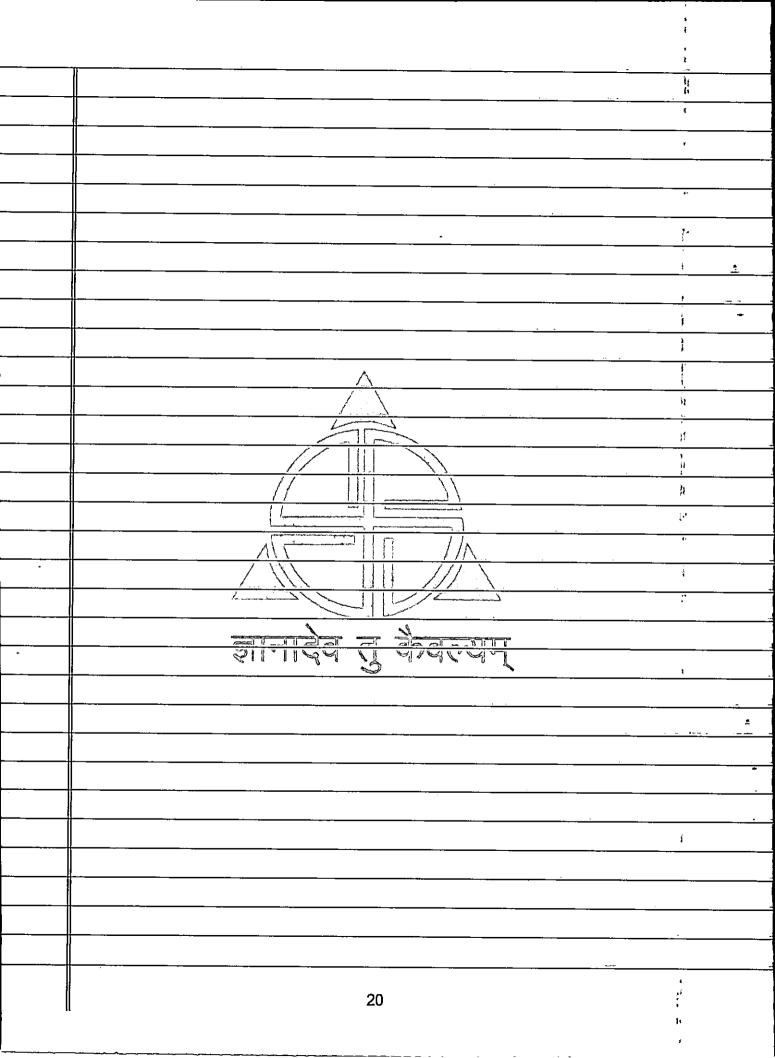
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		· · · · · · · · · · · · · · · · · · ·
r.,	Chan and Times Domestinile.	
<u>5c</u>	Space and Time Complixity.	7
Ans	Time compexity: It is a particular time veguire to work a machine or anything is time complexity	
	time vieguire to work a machine	ę.
	or anything is time complexity	· ·
		, <u> </u>
		
		······································
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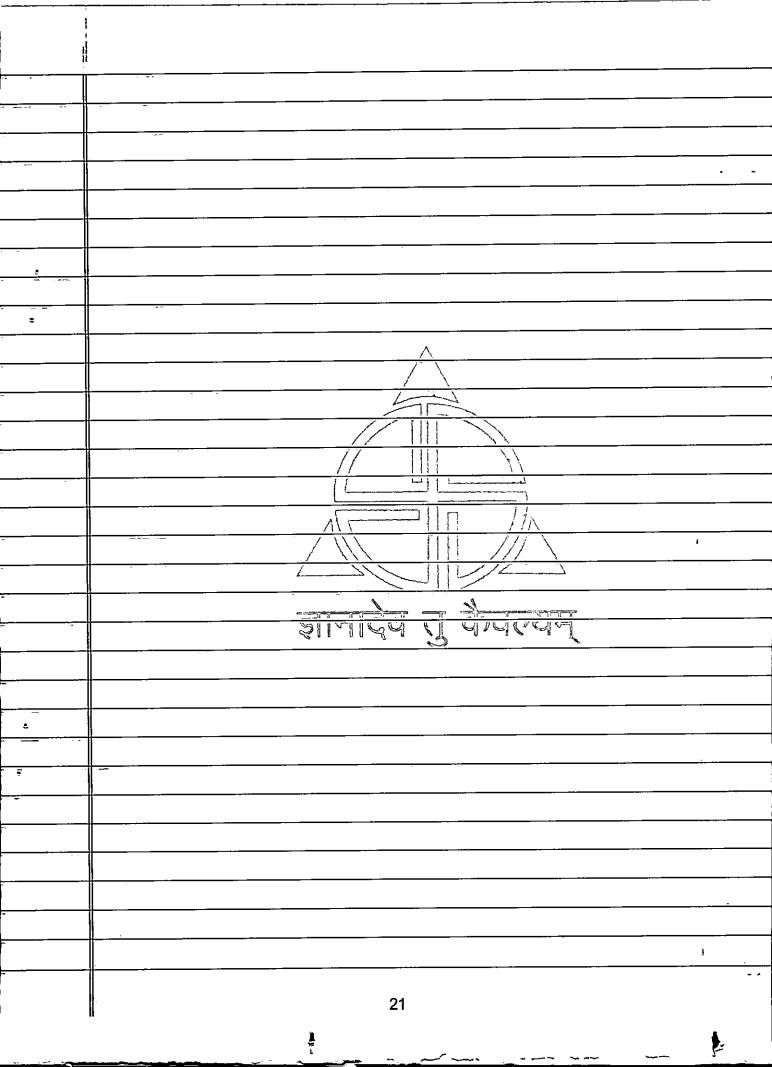
		<i>p.</i>
		<u> </u>
	वारादेव त केतळाग	
		*~
		सुर्वी च्यास्त्र प्रकार
		1 -
	A 1 4 54 14 14 14 14 14 14 14 14 14 14 14 14 14	
		1
<u></u>		
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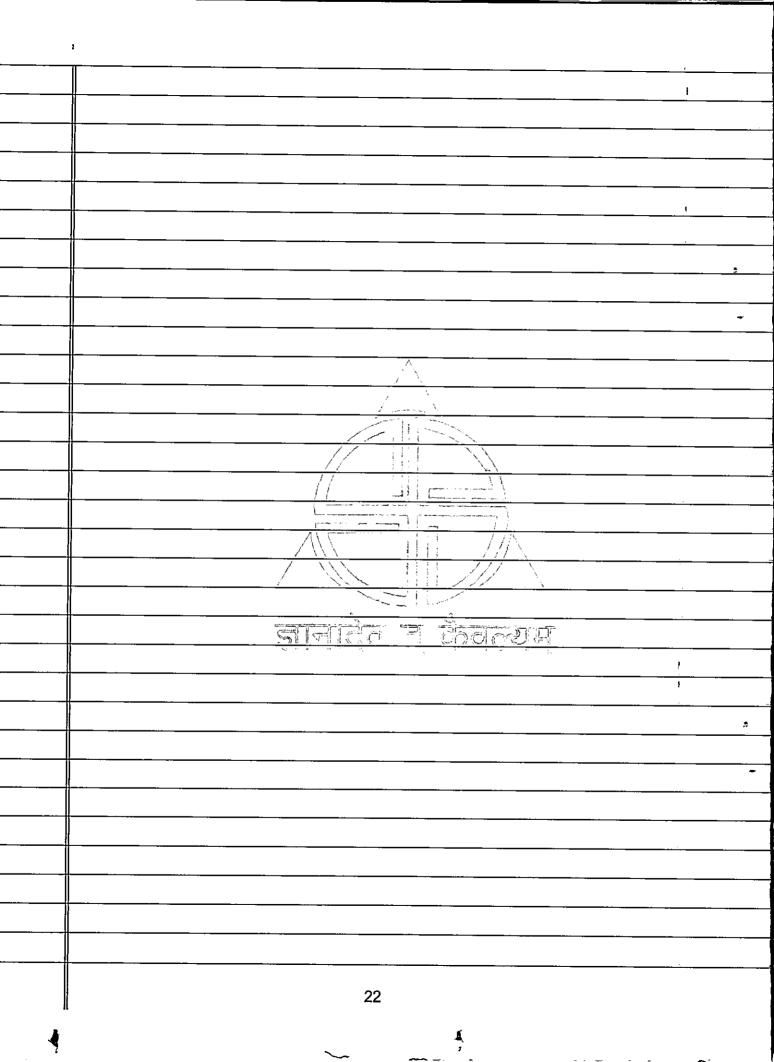


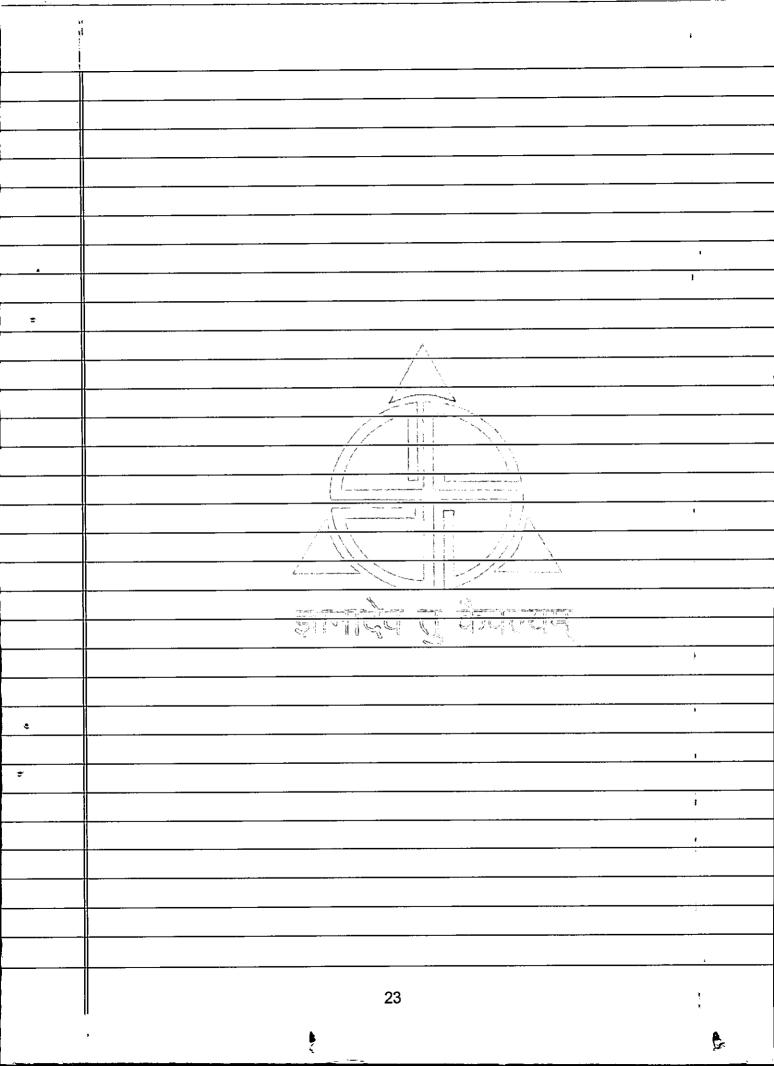


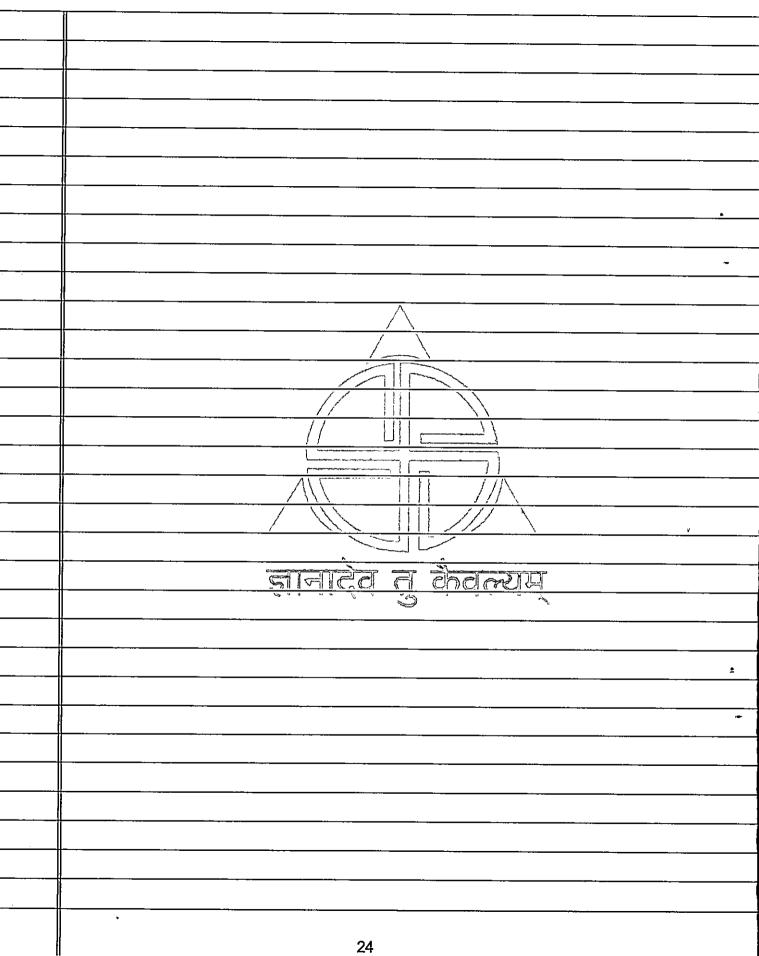


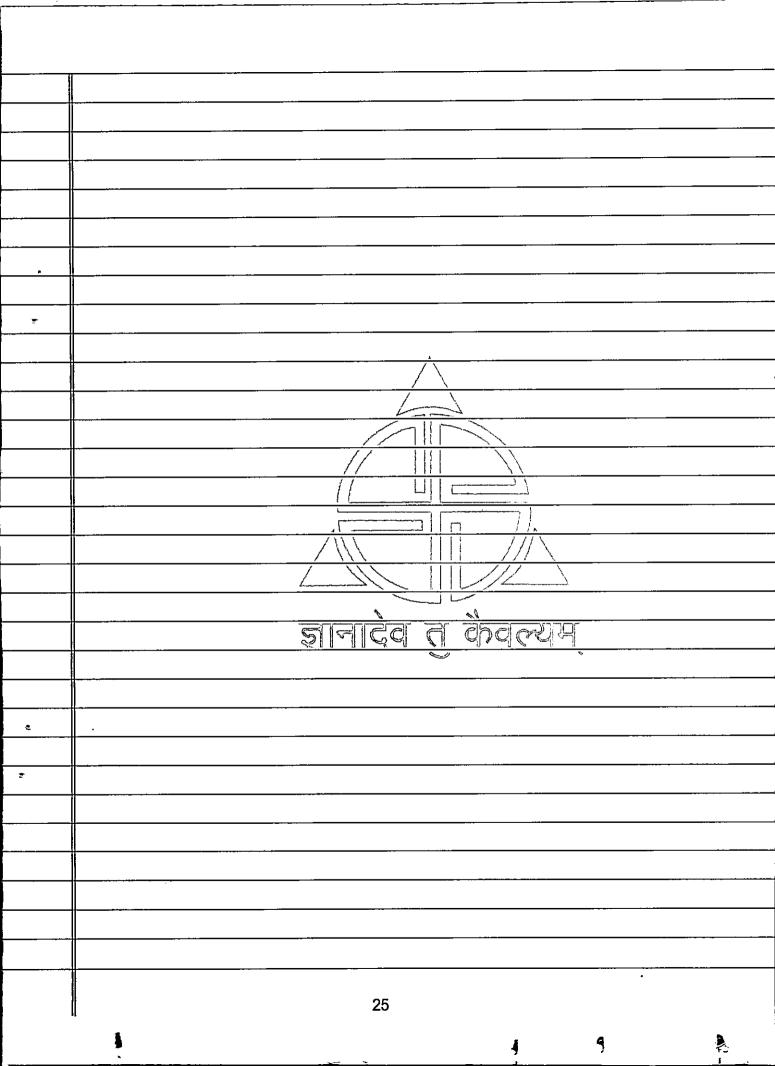


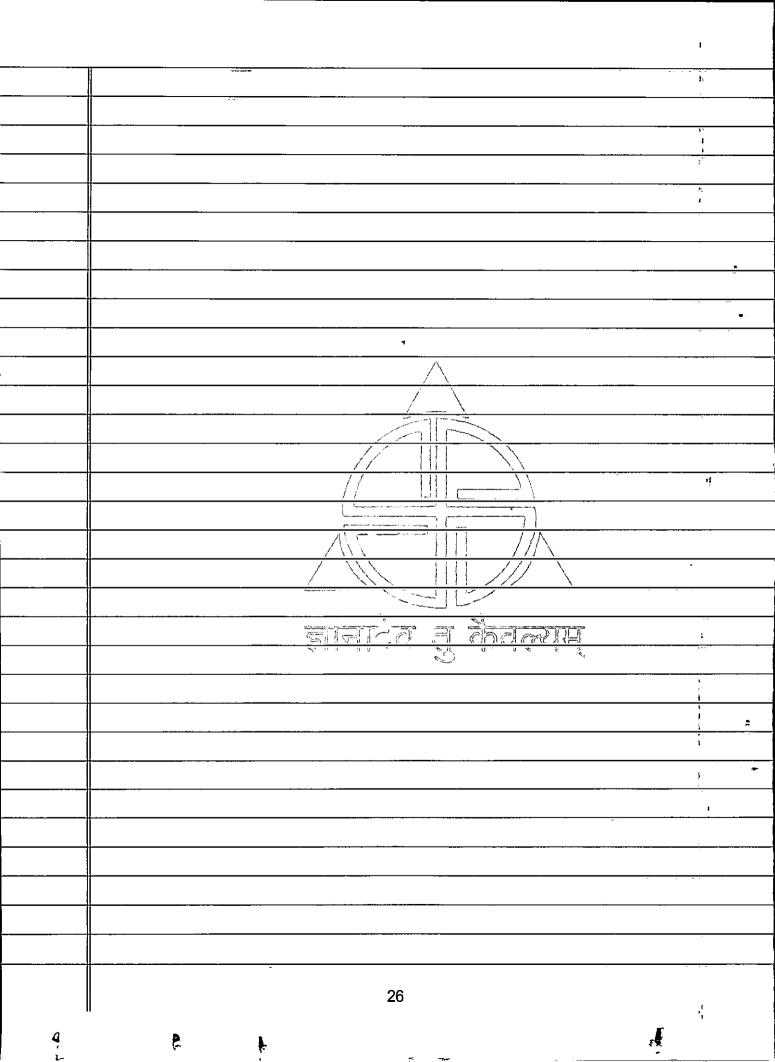


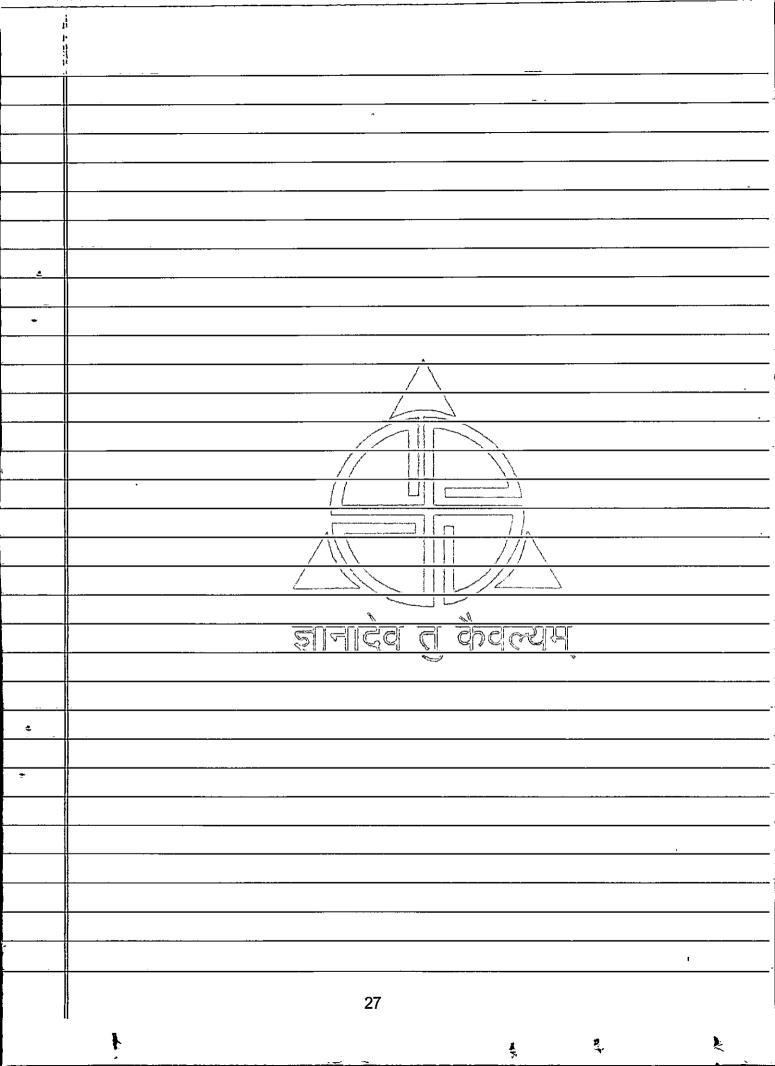


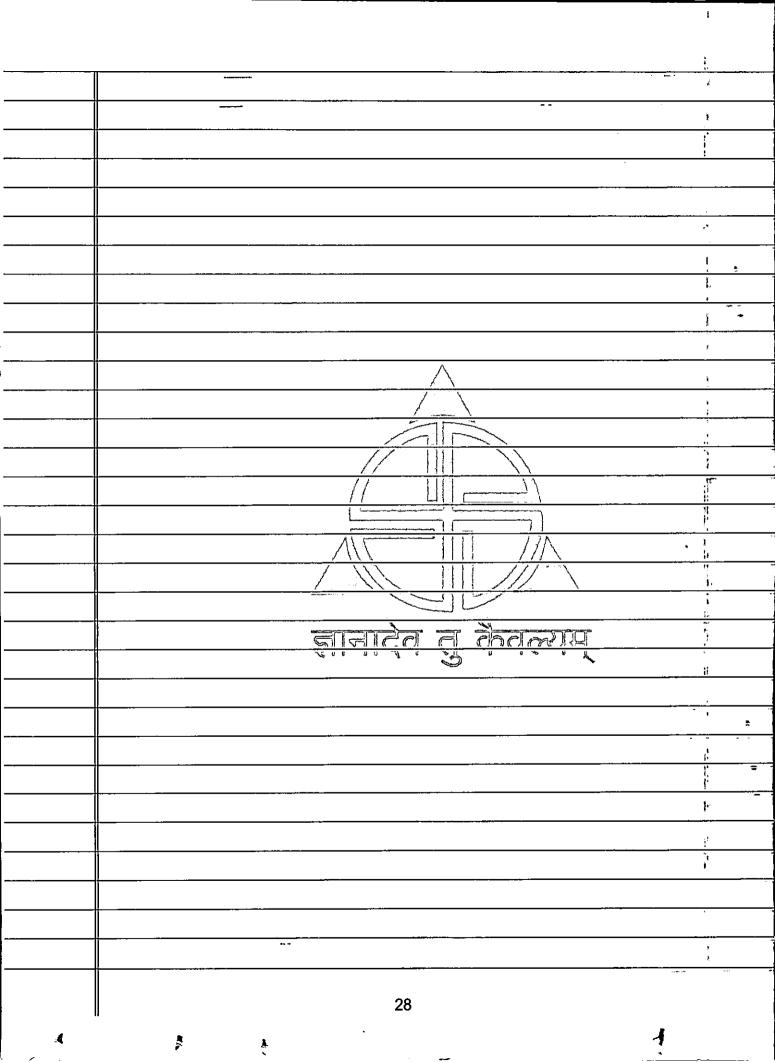


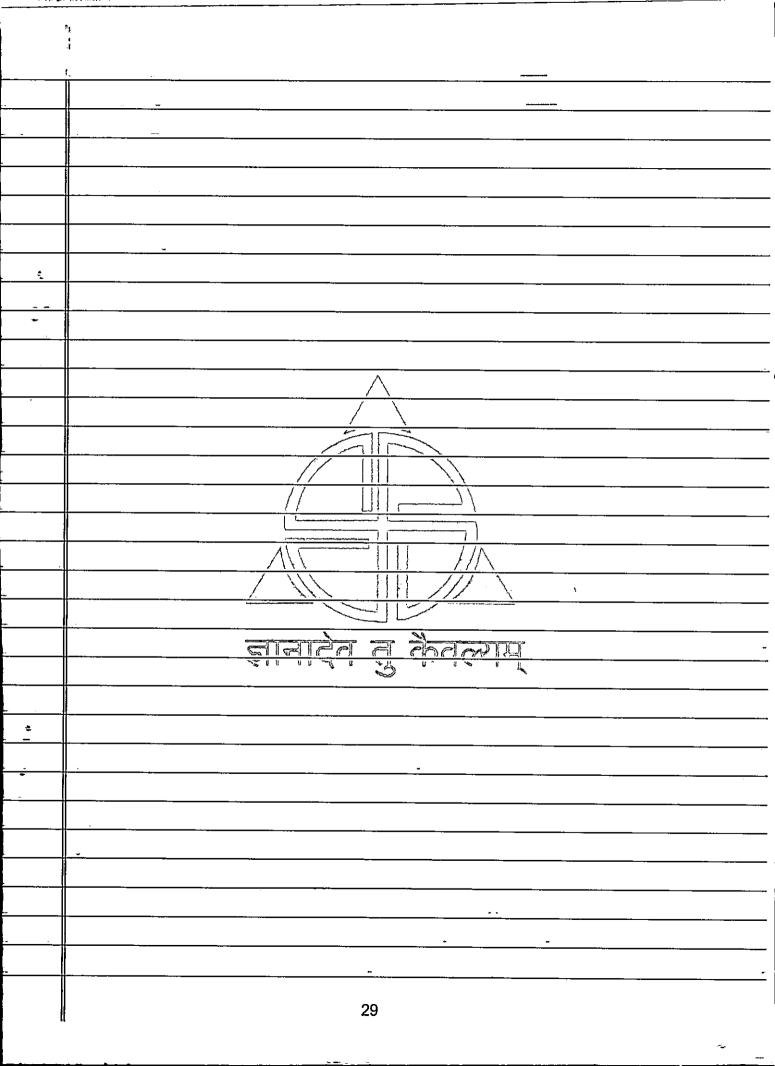


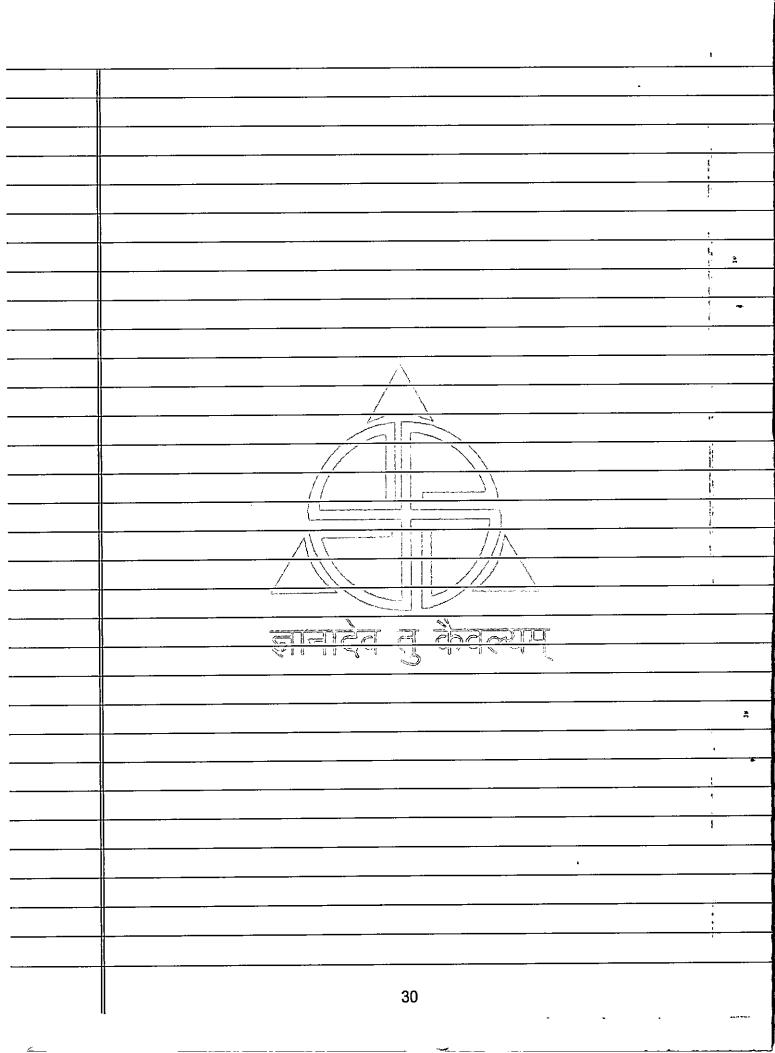


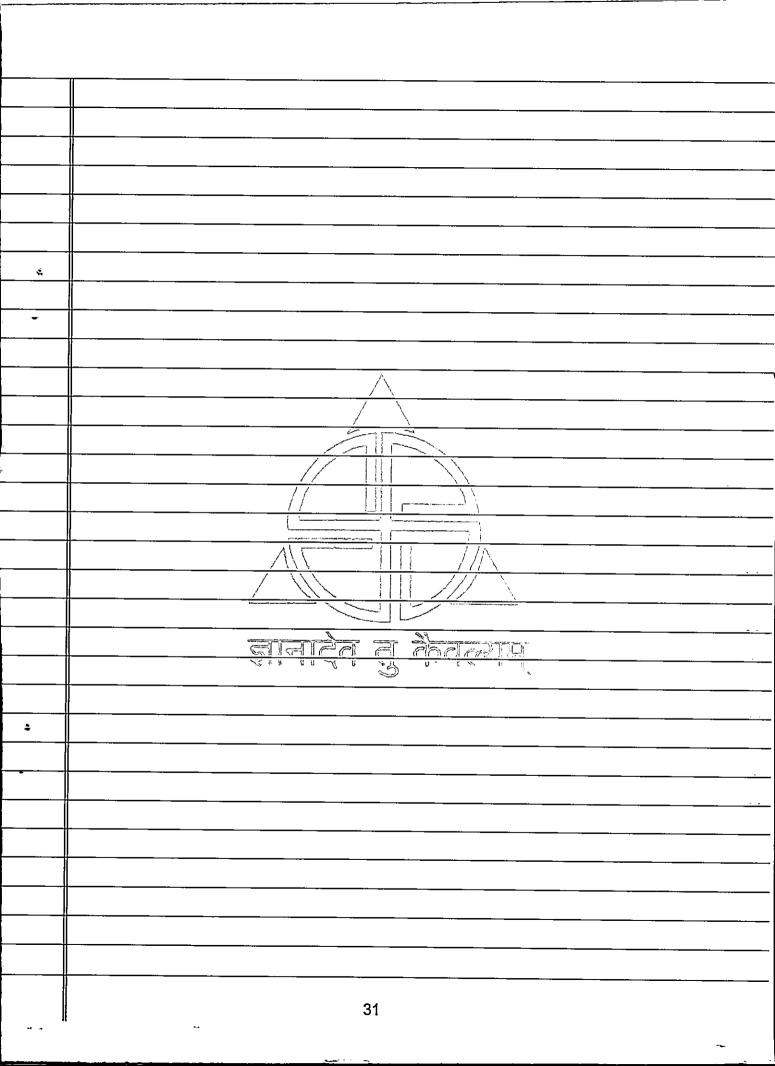




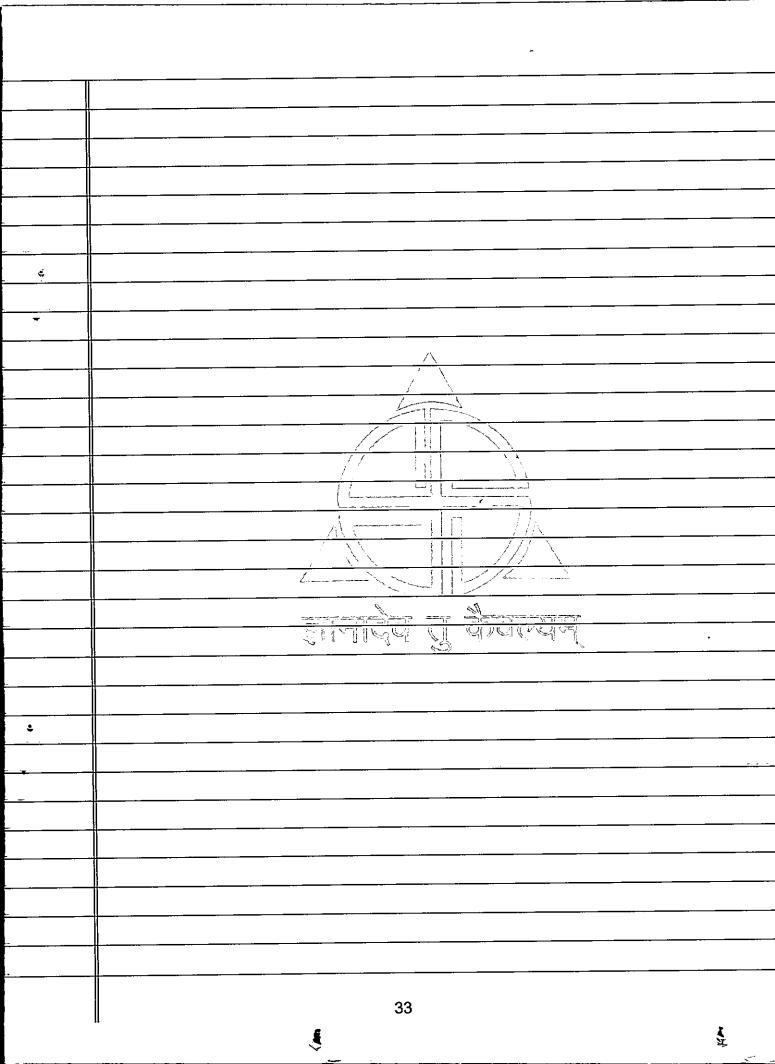


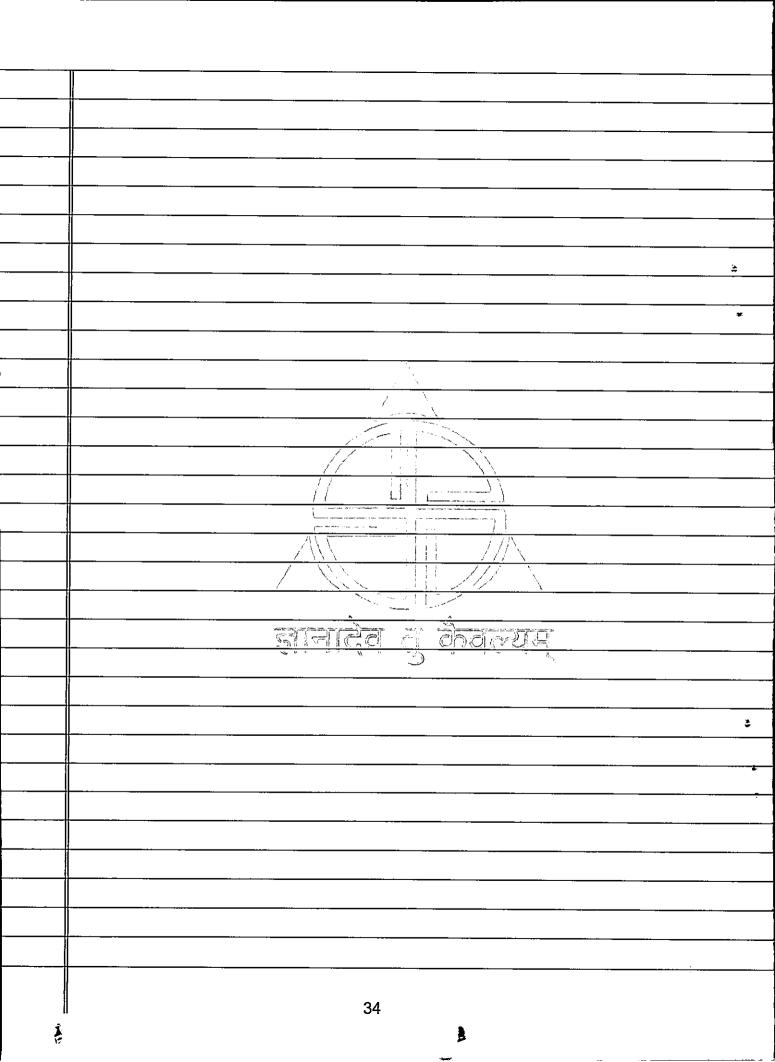


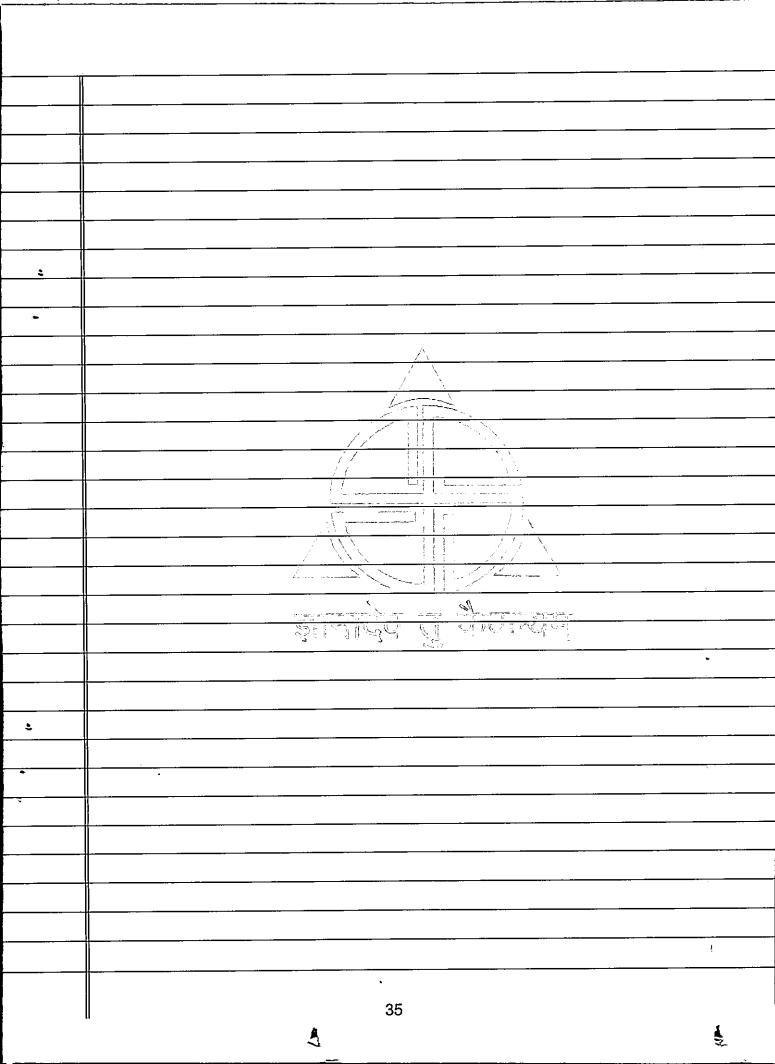


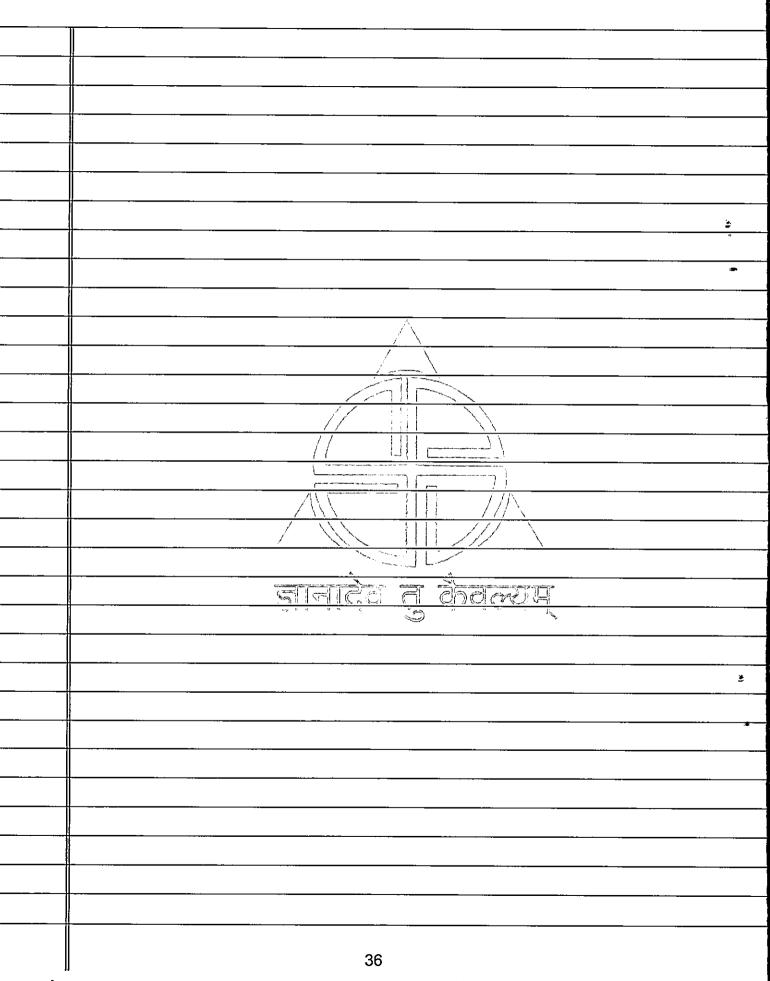


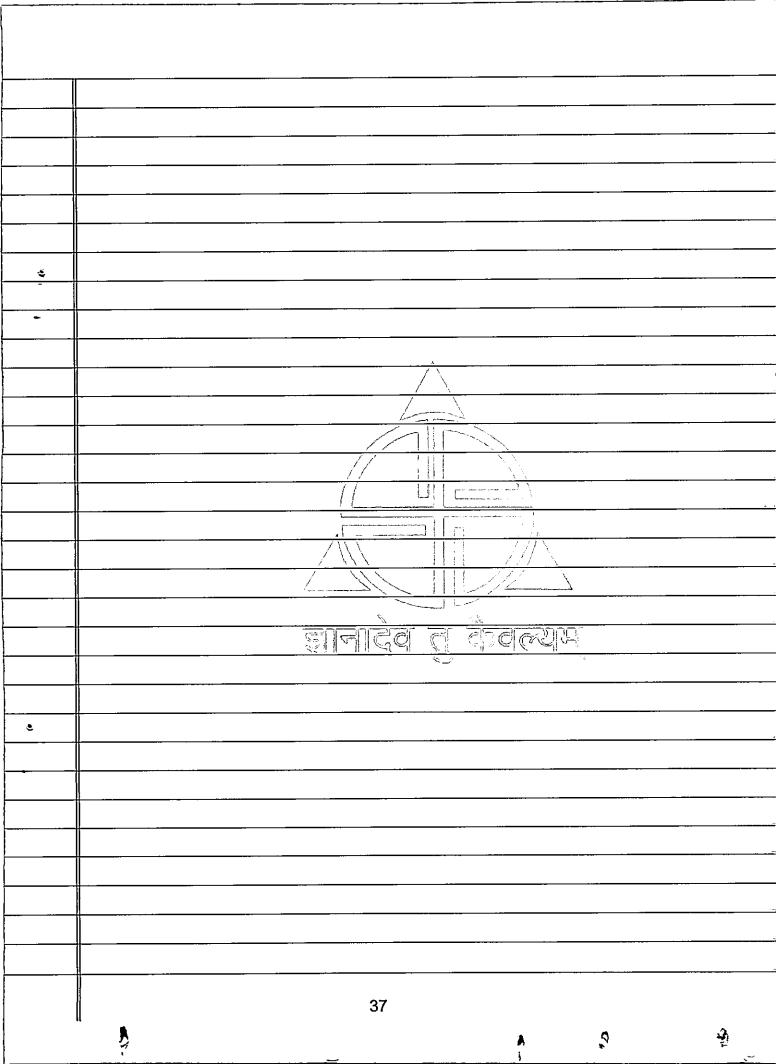


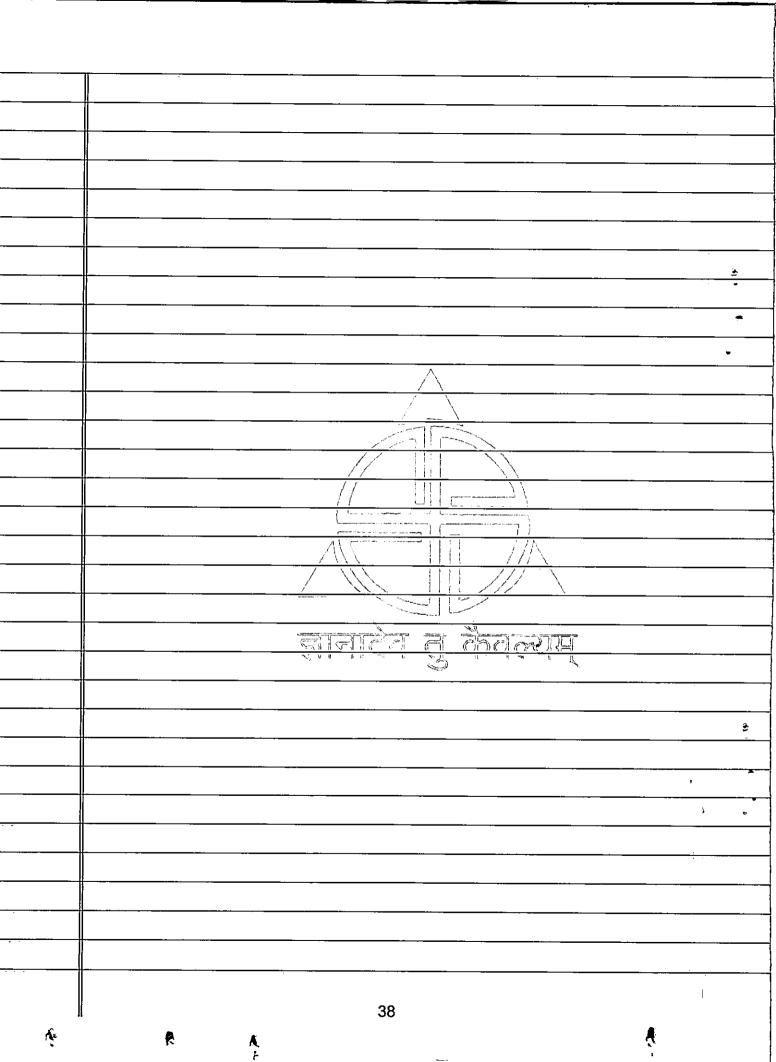


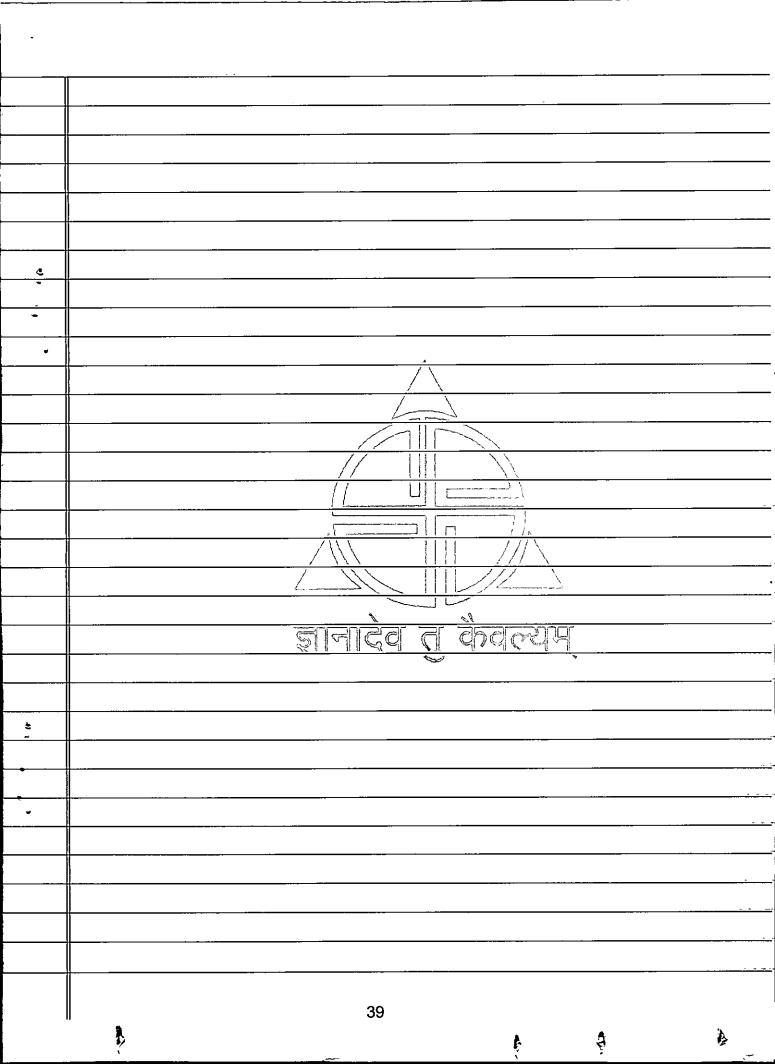


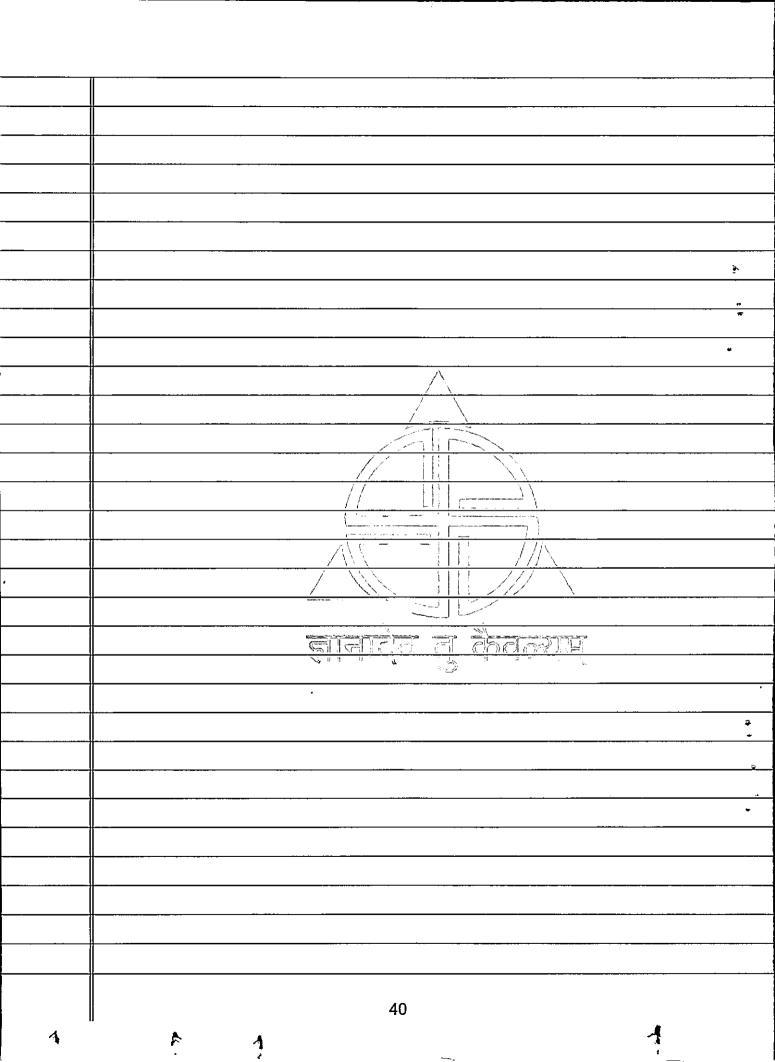












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