1.	Fill in t	he terms for	he definition																			
	Term	Definition					1) 000	alna		Liv	ication	A ()										
i)		Being continuous or having continuous values.								halog		11/1	isetin	1C								
ii)			ic operation inditions are t	n which a true rue (HIGH).	e (HIGH) ou	atput occurs	s only wher	n all	A(ii	NDq	ate											
iii	)	The basic timing signal in digital system.																				
iv	Related to digits or discrete quantities.								hi) C	IUCK												
v)		A sudden change from one level to another, followed after a time, called the pulse width, by a sudden change back to the original level.								igita												
vi) The time interval on the leading edge of a pulse between 10% and 90% of the amplitude									V) D	ulse												
2. Find the duty cycle of a digital waveform if the period is twice the pulse width.  Duty cycle = (+w/T) x 100%																						
												J	J	= (·	twl	2Īw	) X(	00%	-50	)%		
3.	Nam	e the devi	ce that is	ise for				4	7		د ا	101										
i. converting a binary number to 7-segment display format.  ii. data storage.																						
4		ata storag		rcuit has a	HIGH	n one in	nut and				t and			MD	/ 116	\p /	VAID	n	1			
	the o	output is l	OW. Idea	ntify the ci	rcuit.						i, and		l l	IIIV	\ N	OR/	XNU	Ko	atc			
5.		e the logic s and outp		of each of t	he block	below be	ased on y	your obse	ervation o	of the			1) Adder function									
	i)			ii)		٦	iii	i)		_,			M(ii	ullib	lier	func	not					
	5		<b>→</b> 8	2	•			ow —	<b>&gt;</b>			7	ii) M		lay a	^						
	3		<b>→</b> 0	3	•	6	LC	OW ——	<b>&gt;</b>	-		_	III) I	MIN	nexe	r fun	CTION					
6.	_			a freque any pulse	-		s applie	ed to the	input o	f a count	ter.	1000	)									
7.	_		_	vaveforn		-		of 25 μs	and a	period	of 150	μs.	= 150	i =6	666.1	7 H 2	=6.4	7kH	7			
	De	termine	the freq	iency an	id the d	uty cyc	cle.									-	_					
8.			n advanta	ges of a d	igital sys	stem cor	mpared t	to an ana				i)a)	progra	lmma	ble	<b>b)</b> e	ase ot	store	ge			
		n analog		digital si					of both a	iired to co analog an		00	ase o	f fa	brical	iοΛ	on I	16	J			
digital circuits is called a system  iii)The smallest unit in a digital systems is called								n								مالم	(An/	۱ لم	لمنيا			
	iv) Determine wheter the following is an analog or a digital quantities, circle									rcle the r	right	11/1	nalog	ע טו	Julia	I CONV	(11(1	יעוי	עו, נ	PIIM		
answer									igiit		pit,											
		2) N	umber of	cars at the					log / Di log / Di	_		(Vi	1.Ana	loa	2.	igita	3.	Digit	al 4	And	DA	
			orage cap re pressu	acity of a re	memory	,			log / Di log / Di					J		J		J				
9	i) D	etermine	the frequ	iency of a	wavefo	orm in F	ig 1 if T	Γ is 10m	ıs.	<del></del>	-	1		.1.			1.	1	1. \		1	
n min r													anno	1.11	> VOI	) Peri	<b>I</b>	LAPON	iodic)	sign	<u> </u>	
												ii)	١	0	0	O	1	O	1	٢		
Fig 1 ii) Draw a digital waveform to represent the following digital value 1000101110 (left												durat	JIW :	1 45								
	value first), if the pulse width is 1µs, determine the duration of each bit before it													IVI								
10		_	a new bi	_	ois law	al ahan	d in 1		1:641-	aiomal is						)	4					
10.				digital lo	_	ei chang	geu in I	secono	i ii the	signal 18	s a squa	16	period for 1 No 0	1 =	f =	100 =	کلا					
													for 1	Selo	nd.	no of	cucl	e <b>5</b> = 1	MS =	IXID	6	
													h a A	FALA	NA .		J	yll'	x Inb	_)v	1116	
													1/Q D	514	JIMI (	.J\QI\0 \	K -2	LVCI	NIV	1-11	IV	

