END SEMESTER EXAMINATION - 2019

Semester: 4th (New Syllabus) RY & Burn

Subject Code: CO-406

DIGITAL ELECTRONICS

Full Marks -70

Time - Three hours

The figures in the margin indicate full marks for the questions.

PART - A

Marks - 25

1.	Fill	in the blanks:	1×10=10
	(a)	Output of AND gate is high if and all inputs are	l only if its
	(b)	NOT gate is also known as	
	(c)	Nibble is a group of	bits.
	(d)	BCD means	
	(e)	Demultiplexer has	
			[Turn over

0-40	3	€	<u>©</u>		(b)	©	9		(a)	Wr	9		Ξ	E	(g)	3
0-406/DE (N)	logic operations.	Karmanoh-mar	Encoding is th numerals and	number.	Zero is used	In 2's compl added to its c	Flip flops are	high.	In NAND gate	Write true or false:	ROM means	decade counter is	Minimum nun	SISO means_	Flip flop has	Flip flop is a
(2)	ns.	Karnanoh-man (K-man) is used to minimize	Encoding is the process of coding alphabets, numerals and symbols in binary format.		used to represent positive	In 2's complement representation one added to its one's complement form.	Flip flops are memoryless elements.		In NAND gate output is high if all inputs are	ŏ		T IS	Minimum number of flip flop required for			
		d to minimize	ling alphabets, ary format.		positive sign	at form.		- Vo K	f all inputs are	1×10=10			required for		states.	element.
7//							(b)	TRAL	1BRAR	* Target	3.					A
CO-40				©	-		9	FTECH	101013			9	Θ	(E)	?	(9)
7/CO-406/DE (N)	(iv) OR terms ORed together	C L	(i) AND terms	In SOP (sum of product) form	(iii) 10001	(i) 10111	Add binary nur	(iii) A'B+AB'	(i) A'B+AB	Output of Ex-OR gate is	Choose the correct answer:	LED is liquid emission diode.	Up counter inc	in one direction.		Resisters is composed
(3)	rms ORed together	(ii) OR terms ANDed together	terms ORed together	of product) form	(iv) 11100	(ii) 10011	Add binary numbers 1011 and 1100	(iv) A'B'+A'B	(ii) AB+AB'	OR gate is	answer:	emission diode.	Up counter increases on every clock pulse.	in one direction.		is composed of group of flipflops
[Turn over	S		*	*	00	1	1100	"+A"B *	+AB'		1×5=5		clock pulse.	an be shifted		p of flipflops