

Code: 15CS21T

| Max. Marks : 100

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	esi (0BS	seven questions	wer any seven questions

II Semester Diploma Examination, Nov./Dec. 2017

DIGITAL AND COMPUTER FUNDAMENTALS

Time: 3 Hours [Max		Max. Marks : 100
Note:	(i) Answer any six full questions from Part-A.	
	(ii) Answer any seven full questions from Part-B.	. 11 Consendiction to flow this
	PART - A CENT Is must be	
I. Ans		
1.	Explain binary number systems.	unicol of InBETA CONSOLE!
		of functionable et al. (v)
2.	Write the Rules of Boolean algebra.	Diploma - [All Branches]
3.	Construct the AND gate using NAND.	5 1
4.	List the applications of multiplexer.	Diploma Question Papers [2015-19] 5
5.	What is Flip-Flop? Write the logical symbols of Flip-	Flop. 5
6.	List various applications of computers.	5
7.	Compare ROM and RAM.	7. Explain The working
8.	Write a short note on Inkjet Printer.	muib shoot days the block days
9.	Define the following terms:	o construir ba adi ter 1 01 5
	(i) Hardware	
	(ii) Software	
	1 of 2	[Turn over

PART – B

I.	Ans	wer any seven questions :	
	10.	Explain the terms:	10
		H Semester Diploma Examination, Nov/Dec. 201 GOB (i)	
		(ii) FRCDIC	
		(iii) ASCII Code	
	001	(iv) Gray Code	Time: 3
		(v) Excess-3 Code	
	1.1	(i) Answer any six full questions from Part-A.	
	11.	Convert the following: 8-1101 ment anoneoup list novae vas reveal (ii)	10
		(i) Binary to octal $(11010)_2$.	
		(ii) Decimal to hexadecimal (928) ₁₀ .	
		(iii) Binary to decimal (11011) ₂ .	
	8	(iv) Octal to decimal (146) ₈ .	CONSOLE
		(v) Hexadecimal to binary (7AC) ₁₆ .	Siele e d'All Deserte e
	2	- (MIN 1925) 그리즘 (TO 1927) 전 이 사람들은 (MIN 1921) (MIN 1920) (MIN 1921) (MIN 1921) (MIN 1921) (MIN 1921) (MIN 192	Diploma - [All Branches]
	12.	State the Boolean laws with expressions.	10
		Construct the AND gate using NAND.	
	13.	Explain with a neat circuit and truth table of BCD to Decimal encoder.	10
	ě.	myalnithan ta managari [10]	loma Question Papers [2015-
	14.	Explain the working of 4-bit parallel-in-parallel-out (PIPO) shift register w	
		logical circuit and truth table. What is Flip-Flop? Write the logical symbols of Flip-Flop.	10
	15.	Explain 4-bit asynchronous ripple counter.	10
	2	List various upplications of computers.	10
	16.	Draw a block diagram of computer system and explain.	10
	17.	Explain 'The working principles of keyboard'.	10
	18.	Draw the block diagram and explain the working principles of CRT.	10
	19.	List the advantages and disadvantages of optical disk.	10
		(1) Hardware	
	THE REAL PROPERTY.	(ii) Software	