## GURUDAS COLLEGE DEPARTMENT OF COMPUTER SCIENCE SEM – I PAPER –CMS-G-CC1-TH

	Time: 1 hour	Full marks:30
	Answer Question 1 and any four from Question 2 to 9	
1.	<ul> <li>ANSWER ANY FOUR .</li> <li>a. Define data and Information.</li> <li>b. What are the full forms of ASCII and EBCDIC?</li> <li>c. What are combinational circuits?</li> <li>d. What are Minterm.</li> <li>e. Define weighted code</li> <li>f. Define Virus.</li> <li>g. Difference between Level trigger and Edge trigger.</li> <li>h. State two differences between latch and a Flip flop.</li> </ul>	1.5 X 4 = 6
2.	What is Gray code? Design a convertor circuit.	2+4
3.	Prove NAND as universal gate.	6
4.	State the main characteristic of machine language, assembly language and high leve	l language. 6
5.	Simplify the following Boolean function using K-Map	
	F(A,B,C,D)= Σm(1,3,4,9,10)+d(2,7,12)	6
7. 8.	Implement 4 to 1 Mux using two 2 to 1 Muxes	6 6 6
9.	Design a JK Flip flop	6