	Department of Electrical Eng Assignment 2 Date: 09/05/2020	gineering
Course Title: Instructor:	<u>Course Details</u>	Module: Total Marks:
	Student Details	
Name:		Student ID:

Q1.	Consider a resistive load inverter circuit with	
	V_{DD} = 5v, K'n= 20 uA/V ² , V_{To} =0.8V, R_L = 200 k(Ohm), W/L = 2	
	Calculate the critical voltage s $V_{OL,}V_{OH,}V_{IL,}V_{IH}$ on the VTC and find the noise margins of the circuits?	
Q2.	Design a CMOS logic layout given the following function	
	$F = \overrightarrow{(AB + C)B + D}$	
Q3.	What is MOS Inverter? Also draw the circuit diagram of MOS Inverter	
Q4	Write a note on Depletion load NMOS Inverter.	