

National University of Computer and Emerging Sciences Chiniot -Faisalabad Campus



EE1005 – Digital Logic Design Quiz# 4

Instructor: Muhammad Adeel Tahir		Tir	ne: 20 Minutes	
Name:Roll No:	- -	To	Total: 15 marks	
Note: Use the back side of the page if marked as 0 if attempted in a writing the			l clean, quiz will be	
Q: An M-bit thermometer code for the $\mathbf{M} - \mathbf{k}$) 0's in more significant bit position $\mathbf{C}^N - 1$ outputs. It produces a $\mathbf{C}^N - 1$ Design a combinational circuit for binary finding the following. Also draw circuit correct, the question will receive 0	ions. A binary-to-therm 1 bit thermometer cod ry-to-thermometer cod cuit diagram. (5 mark mark	ometer code converter had for the number specifice converter provided the	as N inputs and ed by the input. number of inputs = 3 table/equations are	
No of Inputs: No of Outputs: No of Outputs: No			(1 marks) (5 marks)	
Use A_0, A_1, A_3 for the inputs, and C_0	T_0, T_1T_n for the ou	tputs	,	
Equations:		(1.7	5 each = 4 marks)	