16PE713 FPGA Based System Design

Name: SOLUTION		Reg. No:	
Quiz #2		8 th Jun 2018	
1. CMOS circuits are extensively used for ON-chip computers mainly because of their extremelya) low power dissipationb) high noise immunityc) large packing densityd) low cost			
2. Which of following consume minimum a) TTL b) CMOS	m power? c) DTL	d) RTL	
3. How many transistors are required to implement the function $Y = (ABCD)'$. 8 transistors			
4 can pass logic 1 perfectly, but cannot pass a logic 0.			
a) NMOS b) PMOS	c) CMOS	d) BJT	
5. What is the function realized by the i	implementation shown below	:	
	ction is realized		
6. Compared to bipolar technology, out	•		
a) lower b) higher	c) same	d) depend upon fan-in	
7. How many OR gates are required fo a) 2 b) 3	r a Decimal-to-bcd encoder? c) 4	d) 10	
programmable AND plane.	R plane and a programmable R plane and a programmable uct terms than the PLA.	AND plane, while the PAL only has a AND plane, while the PLA only has a	
9. SPLDs, CPLDs, and FPGAs are all wh a) IC b) PL		mable devices d) PLA	
10. FPGA based design is more suitablea) prototype developmentc) low power application	b) large sc	ale production eed application	

2018 - 2019 Department of Electrical & Electronics Engineering, Amrita Vishwa Vidyapeetham, Coimbatore