Marks

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Mid Semester Examination - Oct 2018

Subject Name:	Digital Lo	Digital Logic Design			Subject Code: BTEXC305	
Max Marks: 2	0	Date	:- 12-10-1	8 Duration:-	1 Hr.	
	to right indicat	e full marks Thenever necessar	'y			
	gic gate is the s	ame as the operati	on of the	gate with an ir	verter connecte	
to the output.						
A. AND						
B. OR						
C. NAND						
D. None of Abo	ove					
		•			**	
2. When group	oing cells within	a K-map, the cell	s must be comb	oined in groups of _		
A. 2's						
B. 3's						
C. 1,2,4,8Etc						
D. 4's						
3. How is a <i>J-K</i>	flip-flop made	to toggle?				
A. $J = 0$, $K = 0$						
B. $J = 0$, $K = 1$						
C. $J = 1$, $K = 0$. 5		
D. $J = 1$, $K = 1$						
4. Which of the	following is co	orrect for a Clocke	d D flip-flop?			
		the inputs is held H				
		HIGH at a time.				
*	•	ws the input when	enabled			
D. The output co	ompiement ione	ows the input when	i Ciiauicu.	,		
6 W/L:-1- 4	af mama: 1	anto are used in s	enchronous ses	mential circuite?		
		nents are used in sy	yncinolious seq	uomiai onoulis:		
a. Clocked Flip						
b. Unclocked Fl				• .	-	
c. Time Delay E						
d. All of the abo	ve				t e	
A Committee of the Comm						
6. The major d	ifference betwe	en a moore and me	ealy machine is	that		
6. The major d A. output of the	former depends	s on the present sta	ite and present	that input		
6. The major d A. output of the	former depends	s on the present sta	ite and present	that input		
6. The major d A. output of the B. output of the	former depends former depends	en a moore and me s on the present sta s only on the prese ly on the present in	nt state	that input		

- Q.2 Solve Any Two of the following.
- (A) Solve K- Map for the equation $F = \pi M (1,2,3,4,6,7,8,) + d(4,5)$
- (B) Convert JKFF to TFF
- (C) Draw and explain four bit Universal Shift Register.
- Q. 3 Solve Any One of the following.
- (A) Design sequence generator using Mealy Machine for sequence 1 1 0
- (B) Design 3- bit UP Counter.

*** End ***

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3 X 2