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Course No : CSE 3110

Course Title: Digital System Design Lab

Section : B (B2)

Girroup : B2

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Function Table:

\$2	ts	S0	Χŧ	Yı	Zi	Output	Function
0	1	1	Ai	0	0	Ai	Tronsfert A
0	0	1	Ai	Βí	1	ait bit1	Ald with conny
0	1	0	Ai	1111	0	Ai - 1	Decrement A
1	1	0	A; +B;	0	0	Ai XOTZ Bi	XOP
1	0	0	Ai+Bi	0	0	A; Bi	OR.

Output Functions:

$$X_{i} = S_{2}'A_{i} + S_{2}S_{1}S_{0}' (A_{i} \oplus B_{i}) + S_{2}S_{1}'S_{0}' (A_{i} + B_{i})$$

$$Y_{i} = S_{2}'S_{1}'S_{0}B_{i} + S_{2}'S_{1}S_{0}'$$

$$Z_{i} = S_{2}'S_{1}'S_{0}$$

