## Information Technology University of the Punjab SE201 Digital Logic Design – Fall 2024 Quiz 6

Name:	Roll No.:		
Time allowed: 10 minutes			

1. The following is the truth table of a three-input, four-output combinational circuit. Program the PAL device shown in Figure below: A = Em(1, 2, 4,6)

Inputs			Outputs			
x	Υ	z	A	В	С	D
0	0	ti	0	1	0	0
0	0	1	1	1	1	1
0	1	0	1	0	1	- 1
0	1	1	0	1	0	- 1
1	0	0	1	(1)	1	()
î	(1	1	0	0	0	1
1	1	(1	1	1	1	(
i	1	1	0	1	1	- 1

**Maximum Marks: 10** 

$$B = \sum_{m \in [1,2]} (1,3,6,7)$$

$$C = \sum_{m \in [1,2]} (1,2,4,6,7)$$

$$D = \sum_{m \in [1,2]} (1,2,3,5,7)$$



