Gate Question.35

Meet Patel(MIT WPU)

1

1

1

1

Contents

1	
	PROBLEM

2	COM	IDON	ENTS

3	TRUTH	TARLE
v	1100 111	

4	ARDIJINO	CONNECTIONS

K	•	7	١T	JΕ

3 TRUTH TABLE

The Truth Table for the identities got after the ${\rm MUX}$

$_{\rm is}$	as	follows:	F =	xz'	+	xy	+	v'z
-------------	----	----------	-----	-----	---	----	---	-----

\mathbf{y}	\mathbf{z}	\mathbf{F}
0	0	0
0	1	1
1	0	1
1	1	0
0	0	1
0	1	0
1	0	0
1	1	1
	0 0 1 1 0 0	0 0 0 1 1 0 1 1 0 0 0 1 1 0

Table 1

1 PROBLEM

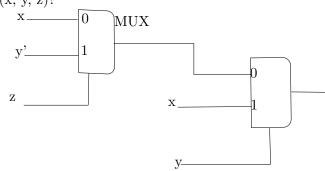
(A) xz' + xy + y'z

(B) xz' + xy + (yz)'

(C) xz + xy + (yz)'

(D) xz + xy' + y'z

(GATE CS-2006) Q.35 Consider the circuit above. Which one of the following options correctly represents f(x, y, z)?



according to the mentioned Equation . \boldsymbol{f}

Here, Except (A) identity all other identies are valid

4 ARDUINO CONNECTIONS

1) The connections between ARDUINO and LED are as follows:

ARDUINO	2	grnd
LED	anode	cathode

Table 2

2) The connections between Inputs(x,y,z) and Arduino are as fllows:

Inputs	x	y	z
ARDUINO	6	7	8

Table 3

Table 3

2 COMPONENTS

Component	Value	Quantity
Arduino	UNO	1
Bread board	-	1
Jumper wires	M-M	20
LED	-	1

3) The inputs $\mathbf{x}, \mathbf{y}, \mathbf{z}$ here are connected to Arduino D6,D7,D8 pins.

4) The values for these inputs are conncted either to GND or $5\mathrm{V}$ according to the truth table.

5 CODE

The arduino code can be downloaded from the below link.

https://github.com/meet-304/meet-304/tree/main/src/Arduino.ino