King Saud University

Electrical Engineering Department

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EE\_208: Quiz # 2

Name:

Number:

Date: 9-April 2013

Q: Complete the truth table and write **F** in sum of minterms form ( **∑(…)** ).

D7

D6

D5

D4

D3

D0

D1

D2

En

I0

I1

I2

C

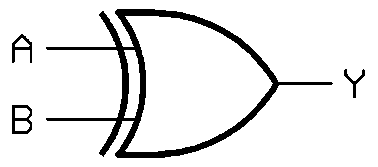
1

B

3 X 8

Decoder

https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcSEAUanFXMFEhagcMYmNdHybRjQ4vsYQRtzyquhb45JSixLej8Z



**F**

A

A

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | C | F |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | **0** |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 |

F= ∑ (0,4,5,6,7)