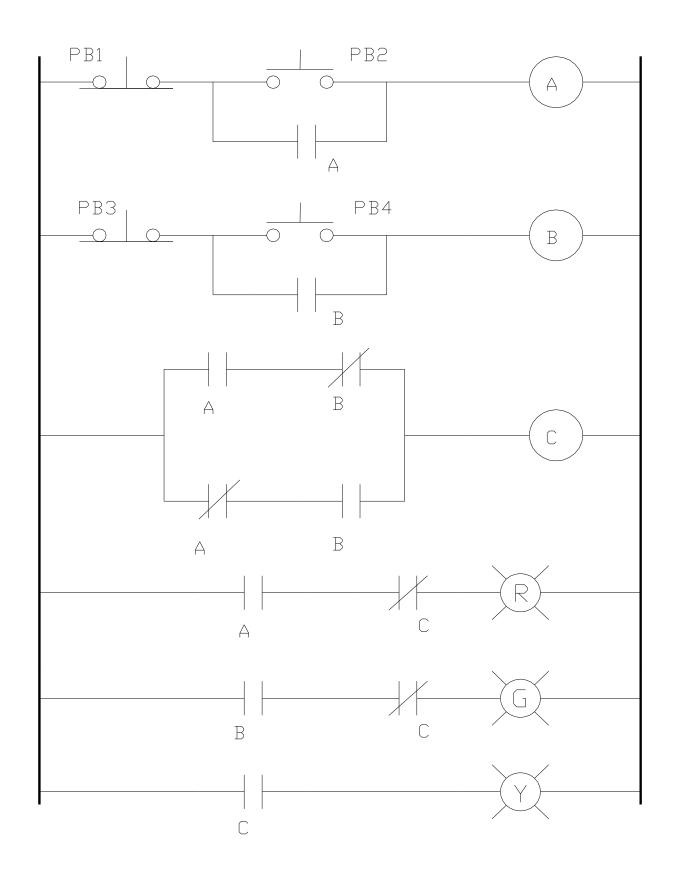
ET 438b

Given the ladder diagram attached, answer the following questions. Assume that all contacts start in the de-energized positions prior to question 1.

1.	Push button switch PB2 is pressed. Which indicator lamp(s) will light? (R, G, Y)
2.	Will the indicator lamp(s) remained on after the PB2 is released? (yes, no)
3.	What combinational logic function is created by the third rung in the ladder? (NOR NAND XOR)
4.	After PB2 is pressed, PB4 is pressed. Which indicator lamp(s) will light? (R,G,Y)
5.	The relay contact B in ladder rung 2 is in the (open, closed) state after PB2 and PB4 are depressed.
6.	The relay contact A in ladder rung 1 is in the (open, closed) state after PB2 and PB4 are depressed.
7.	After PB2 and PB4 are depressed, The contact C in ladder rung 4 is in the (open, closed) state.
3.	PB2 and PB4 have been depressed. Now both PB1 and PB3 are depressed. Will any indicator lamps remain on? (yes, no)
9.	Can the lamps in rungs 5 and 6 light for any of combination inputs (yes, no)

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