TITLE 2.3.2 Seven segment activity

①

A	B	C	D	Display?
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
1	0	1	0	A
1	0	1	1	B
1	1	0	0	C
1	1	0	1	D
1	1	1	0	E
1	1	1	1	F

②

Display	A	B	C	D	E	F	G
0	1	1	1	1	1	1	0
1	0	1	1	0	0	0	0
2	1	1	0	1	1	0	1
3	1	1	1	1	0	0	1
4	0	1	1	0	0	1	1
5	1	0	1	0	1	1	1
6	1	0	1	1	1	1	1
7	1	1	1	0	0	0	0
8	1	1	1	1	1	1	1
9	1	1	1	0	0	1	1

③

J	K	Display
0	0	H
0	1	1
1	0	0
1	1	H

④

Display	A	B	C	D	E	F	G
A	1	1	1	0	1	1	1
c	0	0	0	1	1	0	1
C	1	0	0	1	1	1	1
d	0	0	1	1	1	0	G
U	0	1	1	1	1	1	0
o	0	0	1	1	1	0	1
h	0	0	1	0	1	1	1
H	0	1	1	0	1	1	1
l	0	0	0	0	1	1	0
E	1	0	0	1	1	1	1

DESIGNED BY: _(signature)_

DATE 1/16/25

WITNESSED BY:

④ a. Segment A is on   b. It shows nothing ρ~10

$1010_2 - 1111_2$ invalid

⑤ a. Segment A is off   b. It shows nothing K~20

CK~LS48 high output, seg on
CA b. LS47 low output, seg on

⑥ a. It is glitching   b. yes

c. putting NOR gates on the outputs of OA, ~~OB~~ OB, etc.
to show decimal numbers

Conclusion questions

A,C,D,E,F,G

⑦

BEC

← Cathode

Anode →

Ground
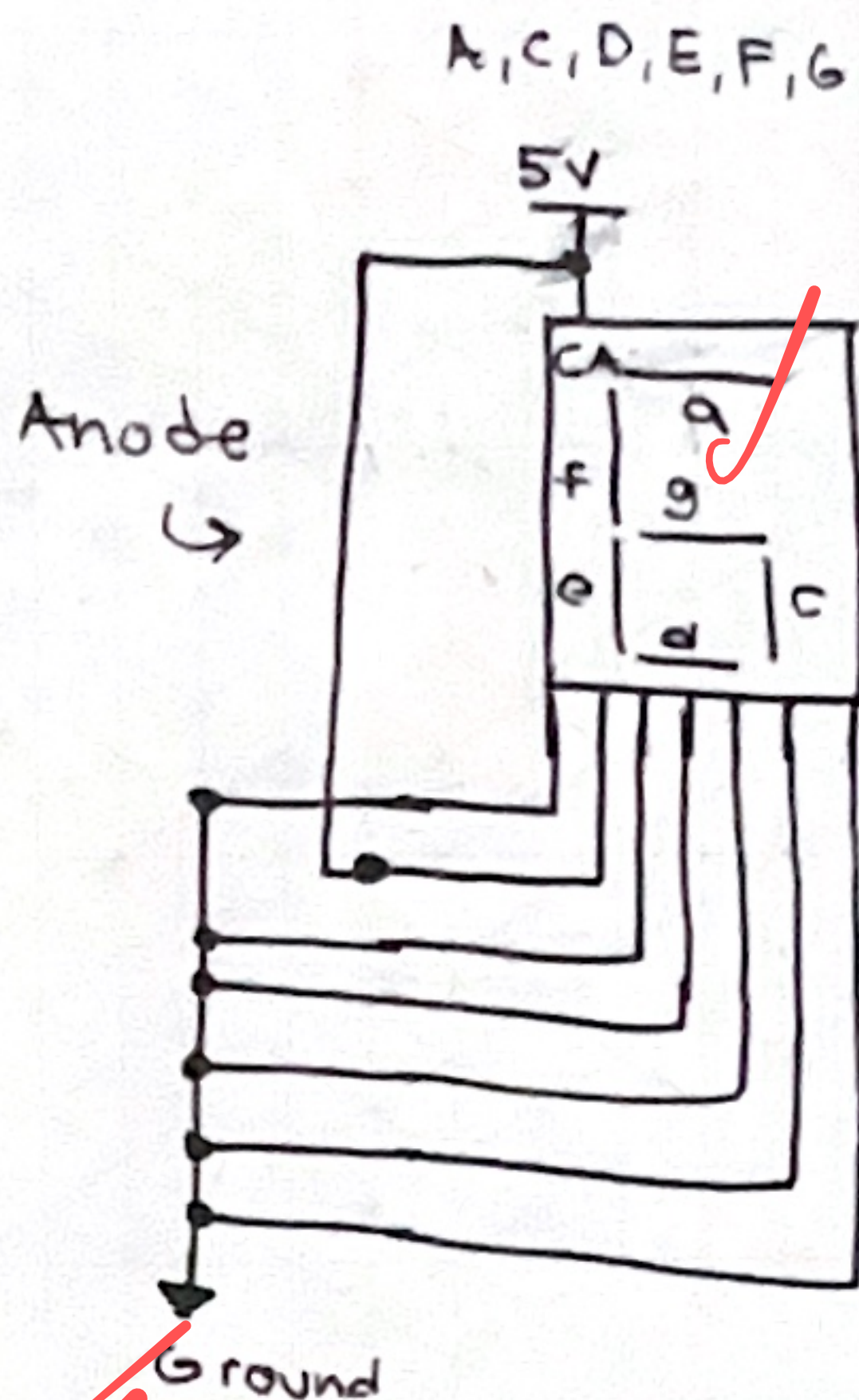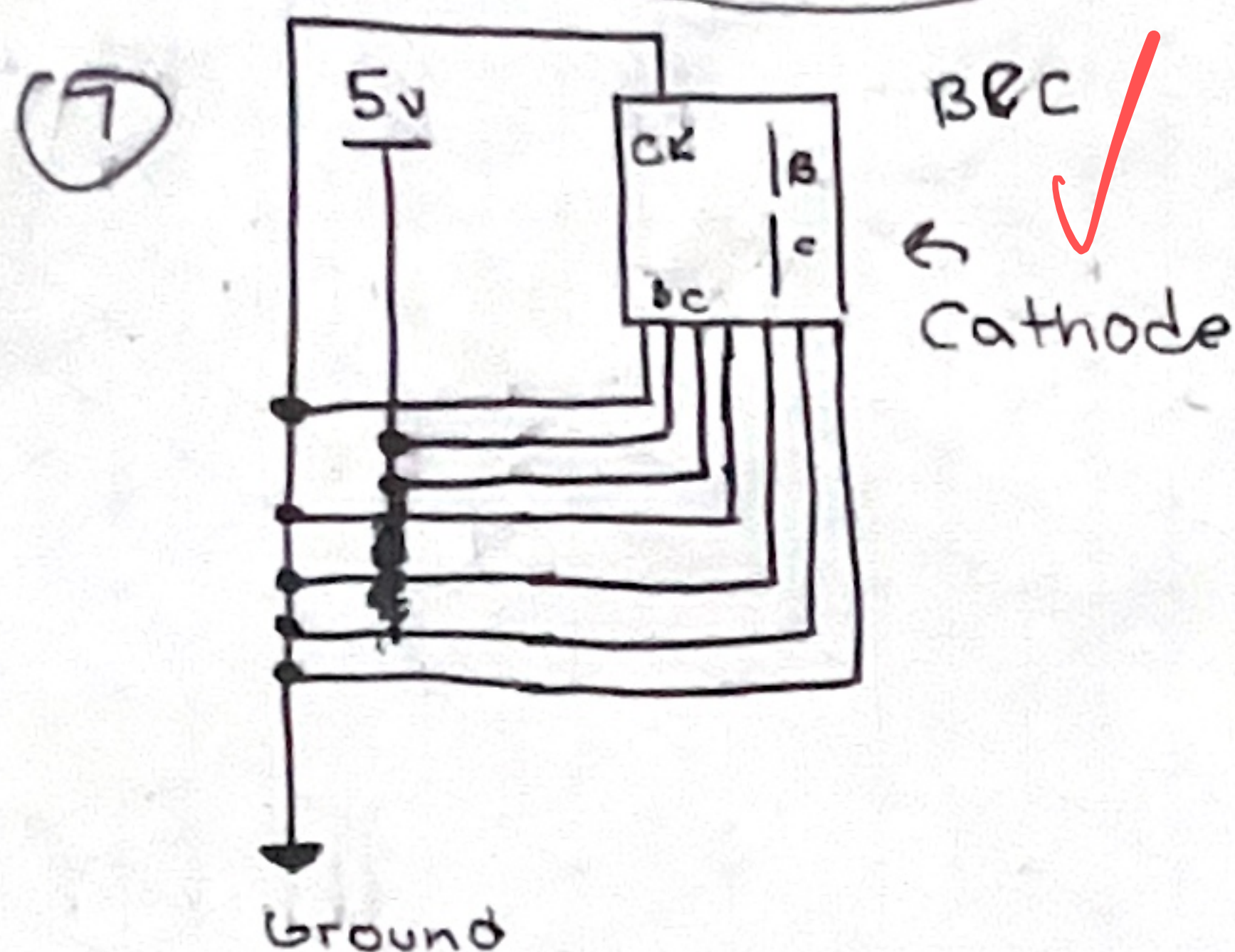
⑧ COOL, BIG, EGG, BEE, SEe

⑨ Check for correct polarity, proper wiring, current
limiting resistors, power supply issues, and visibility

could be inverted

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