

12 Pages

Instructions to Candidates

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold over and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either ignore illegible script or have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer book and cross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. **Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.**

1	Student Number	2218704
2	Title of Examination Paper	Electronics 11
3	Module Code	ACDA6001
4	Date and Time of Examination	8 th May 2025
5	Examination Venue	3101Q Swansea
6	Seat Number	12
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use
04	~~09~~ 10
Total	10/100

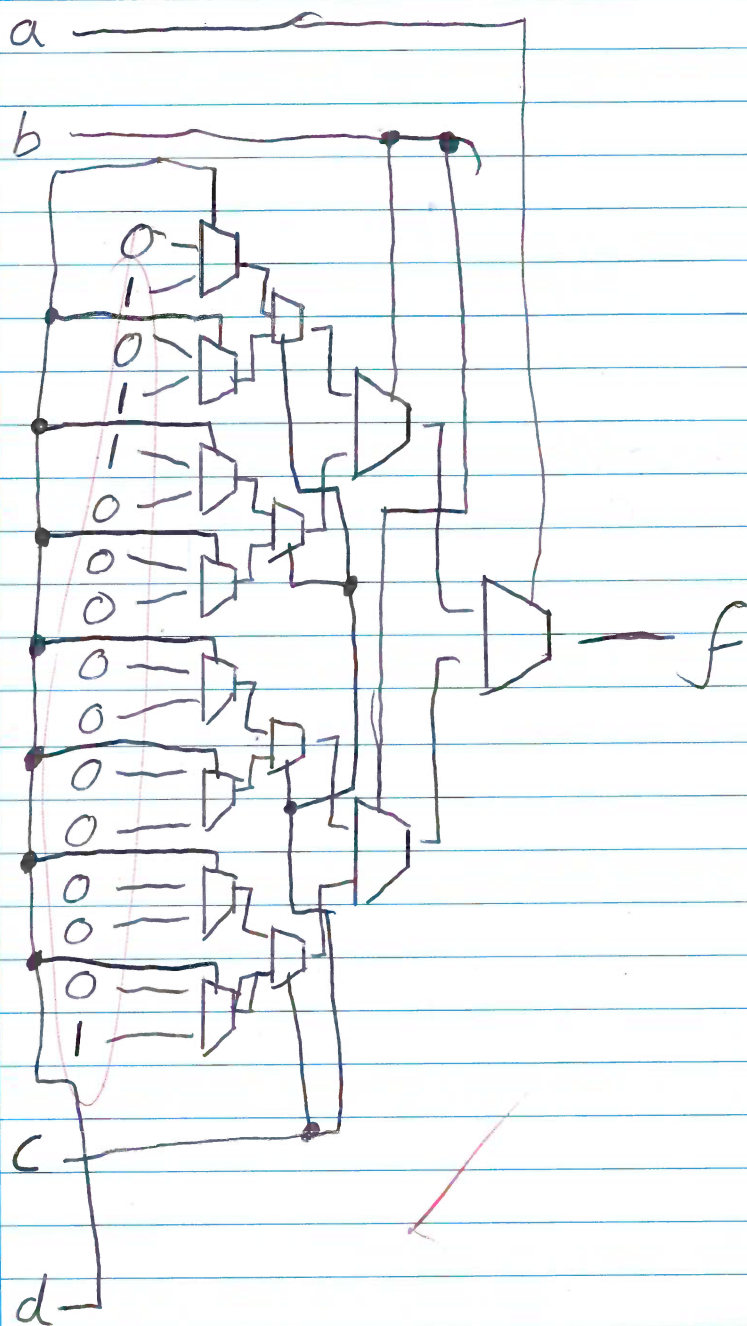
4)

i) $f = \bar{A}\bar{B}\bar{C}D + \bar{A}\bar{B}CD + A\bar{B}CD + ABCD$

a)

A	B	C	D	F
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	1
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

4) i)
b)



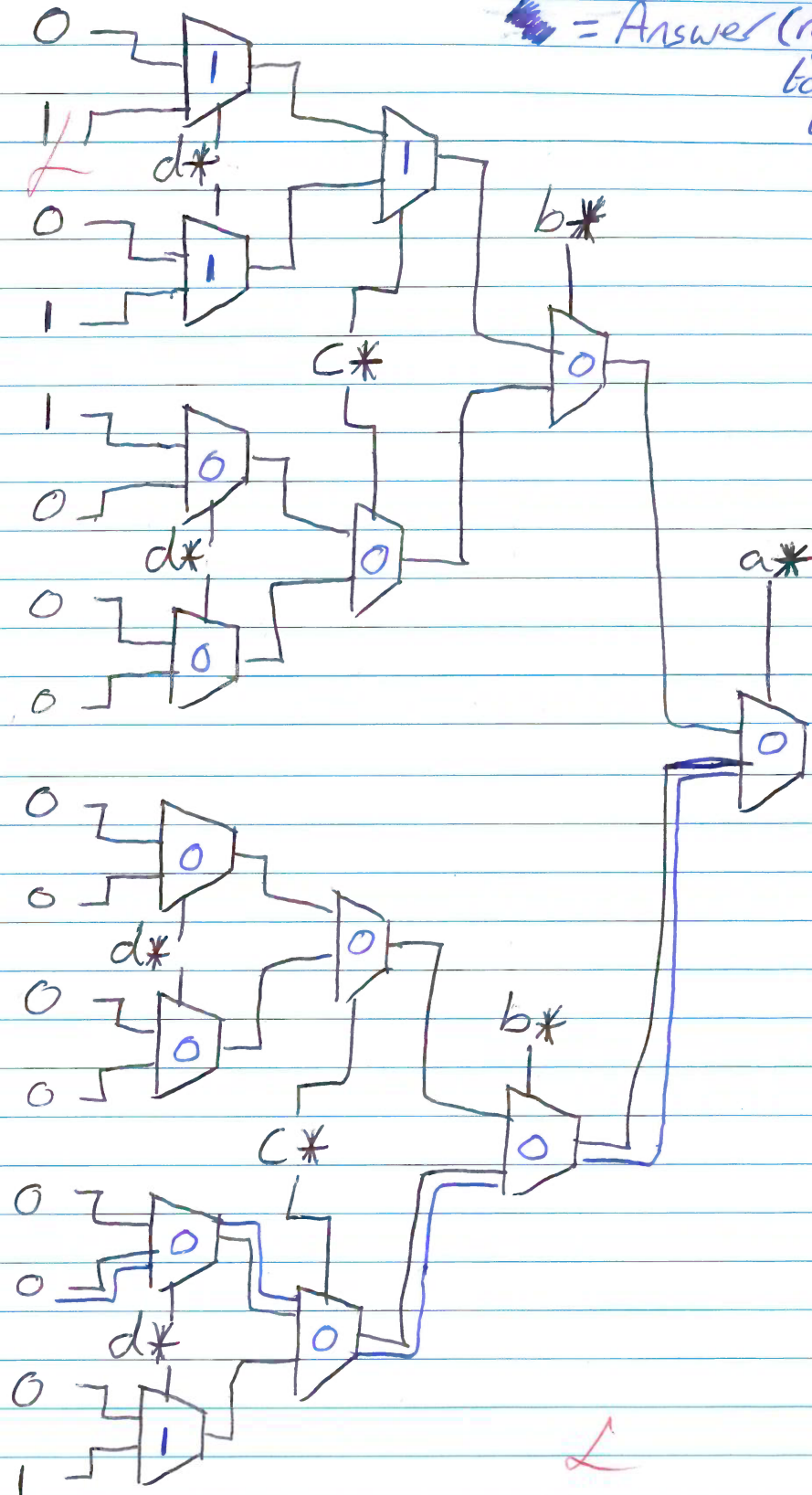
6

~~Diagram~~ = Diagram

4)i)

c)

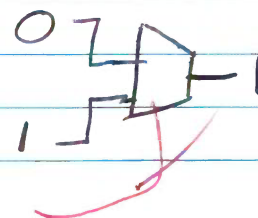
~~Answer~~ = Answer (refer to truth table)



a*
b*
c*
d*

a 0
b 0
c 1
d 0

If Value = 0 = bottom input

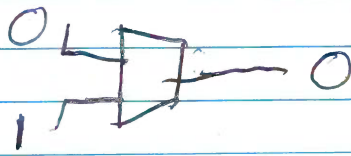


Turn page

4)i)

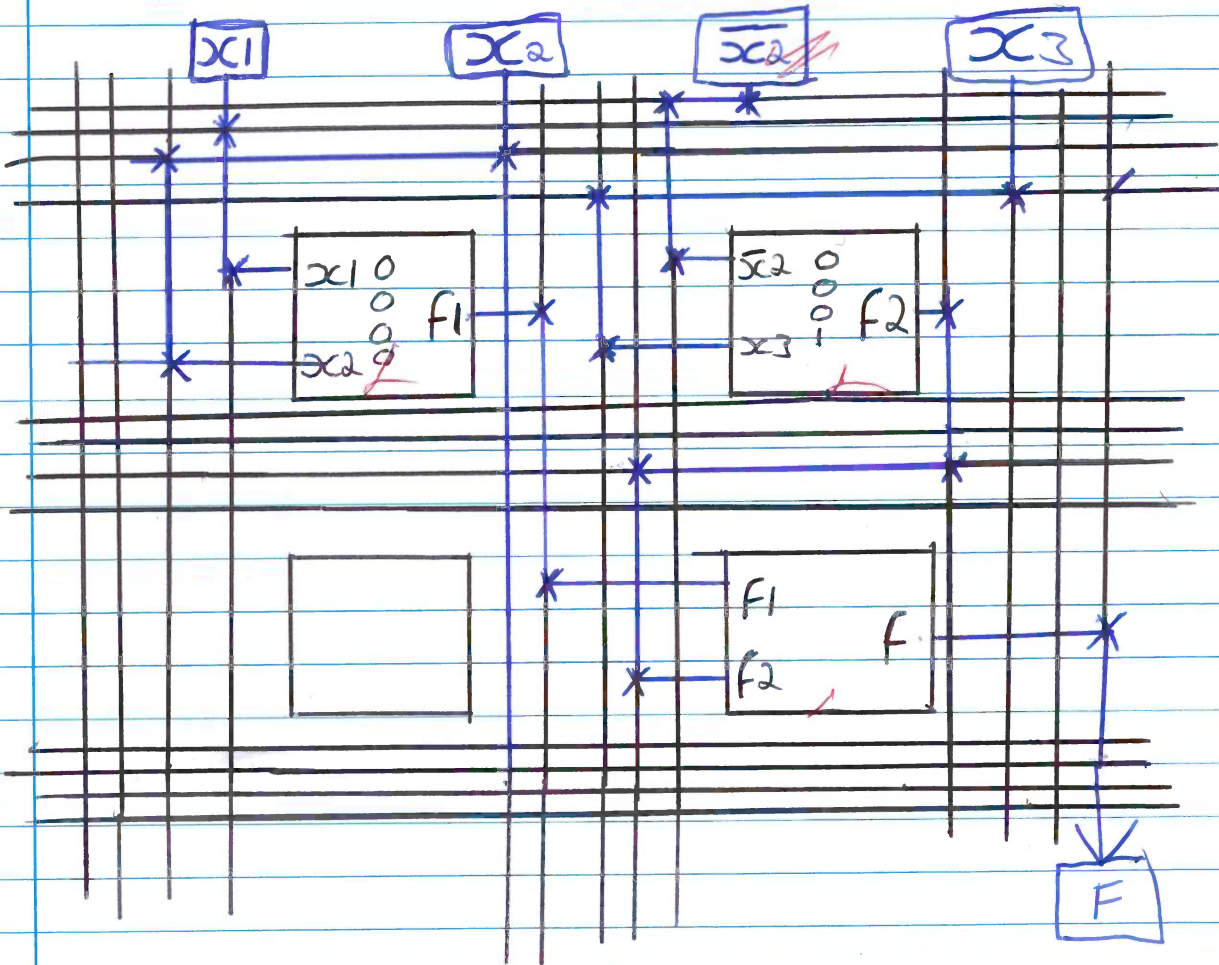
IF ~~Value~~ Value = 1 = Top input

c)



If the Value is 0 the bottom Input is used, If the Value is 1 the top input is used.

4)ii)



format

2

09/25
10/25