



**Complete, fold and seal
(see note 2 below)**

SURNAME: Thomas - Vreen

FORENAME(S): Connor

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right and turn over and seal down (using the label provided) to the right.
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	1805024
2	Title of Examination Paper	Introduction to Electronics
3	Module Code	M4X01510
4	Date and Time of Examination	13/01/20 12:01 PM
5	Examination Venue	IQ310
6	Seat Number	G002
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use
1	1
~~2~~	~~0~~
3	0
4	14.5
Total	15.5

(Gweler yr ochr arall am y fersiwn Cymraeg)

$\frac{15}{16.6} = 0.904$
 $\frac{15.5}{76.5} = 0.203$

1)

~~1)~~

a) ~~1000ma, 1V~~

R1) 1000ma, 1V x

R2) 2000ma, 2V x

R3) 1500ma, 1.5V x

R4) 500ma, ~~1V~~ 0.5V x

R5) 7000ma, 7V x

R6) 1000ma, 1V x

R7) 6000ma, 6V ~~1~~

R8) 7000ma, 7V x

2)

A)

a)

b)

c)

d)

B)

a)

b)

c)

d)

C)

a)

b)

c)

d)

D) 4

4

A) And Gate

A	B	open?
0	0	X
0	1	X
1	0	X
1	1	✓

B) NAnd Gate

A	B	open?
0	0	✓
0	1	X
1	0	X
1	1	X

C) Or Gate

A	B	open?
0	0	X
0	1	✓
1	0	✓
1	1	X

D) Nor Gate

A	B	Open?
0	0	X
0	1	X
1	0	X
1	1	✓

E) Xor Gate

A	B	Open?	
0	0	✓	x
0	1	x	x
1	0	x	x
1	1	✗✓	x

F) ~~Gate~~ Not Gate

A	Open?
0	✓
1	x

A	Open?	
0	✓	✓
1	x	

5

14.5