

Answer Sheet for COMS10014 Class Test 2

Your student number:

--	--	--	--	--	--	--

Question 1

- a.

T	F
---	---

 b.

T	F
---	---

 c.

T	F
---	---
- d.

T	F
---	---

 e.

T	F
---	---

 f.

T	F
---	---

Question 2

	$\wedge I$	$\wedge E$	$\vee I$	$\vee E$	$\neg I$	$\neg E$
Line 2						
Line 5						
Line 11						
Line 13						

Note: I = introduction, E = elimination, so for example $\wedge I$ means \wedge introduction.

Question 3

- a.

T	F
---	---

 b.

T	F
---	---

 c.

T	F
---	---

 d.

T	F
---	---

Question 4

(a) Ind. Hyp.	1	2	3	4	5	6	7	8	9	10	11	12	13
(b) Base Case	1	2	3	4	5	6	7	8	9	10	11	12	13

Question 5

	$\{1\}$	$\{1,2\}$	$\{2\}$	$\{2,3\}$	$\{3\}$	$\{1,3\}$	1	2	3	\emptyset	$\{1,2,3\}$
a.											
b.											
c.											
d.											

Question 6

1.

a	b	c	d	e	f	g	h
---	---	---	---	---	---	---	---
2.

	q	q_0	a	a_0	b	r
X						
Y						
Z						
- Δ

+	-
---	---