Review of Pairs of Statements/First Rules of Inference Examples with fill-in-the-blanks

The pair of statements below is best described as:

- a. consistent
- b. inconsistent
- c. logically contradictory
- d. logically equivalent
- 1.___d___

K⊃L		~ L ⊃ ~ K
TTT		FTTFT
TFF	- W	TFFFT
FTT		FTTTF
FTF		TFTTF

2.___c___

K > L	K • ~ L
TTT	TFFT
TFF	TTTF
FTT	FFFT
FTF	FFTF

3. ____a___

K · L
TTT
TFF
FFT
FFF

4.____b___

$$K \equiv L$$
 $T \uparrow T$
 $T \uparrow F \uparrow T$
 $T \uparrow F \uparrow T$
 $F \uparrow F \uparrow T$
 $F \uparrow F \uparrow T$
 $F \uparrow F \uparrow F$

(1) 1. G⊃F	(6) 1J∨P
2. ~F	2/
3. NG 1,2 MT	3. S⊃J
(2) 1. S	4. ~ \$ 2,3 mT
2 C - M	*(7) 1. H⊃D
3. M 1,2 MP	2. F⊃ T
(3) 1. R⊃D	3. F⊃ H
A 7 - D	4 F2D 1,3HS
3. E 2 D 1,2 HS	(8) 1. S⊃W
(4) 1. B v C	2. ~S
0 D	3. S v N
3. C 1,2 DS	4. N 2,3 D\$
	(9) 1. F⊃-A
(5) 1. N 2. N > F	2. N⊃A
2 N ¬ K	3. ~F
4. K 1,3 mP	4. ~A
*	5. N 2,4 MT
A101-102-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	, , , , , , , , , , , , , , , , , , , ,
(10) 1. H⊃A	(16) 1K
2. A	2. ~K⊃~P
3. A V M	3. ~K ∨ G
4 C > H	4. G⊃Q
5. G = A 1,4 HS	5, ~P 1,2 MP
(11) 1. W v B	(17) 1. F∨(A⊃C)
2. W	2. $A \lor (C \supset F)$
3. B⊃ T	3. A
4. W⊃A	4. ~F
5. A 2,4 MP	5. AOC 1,4 DS
(12) 1. K⊃-R	$(18) 1. (R \supset M) \supset D$
2R	2. M⊃C
3. R V S	3. $D\supset (M\vee E)$
4. R⊃T 2.2 DC	4 ~M
5. S 2 ₁ 3 DS	5. (Ram)>(AVE) 1,3 HS
(13) 1. ~C⊃~F	(19) 1. (S∨C)⊃L
2. L⊃F	2. ~\$
3. —F	3L
4. Fv-L	4. S⊃(K⊃L)
5. NOC 1,3 MT	5. ~(SVC) 1,3 MT
(14) 1. N⊃~E	$(20) 1. (A \lor W) \supset (N \supset Q)$
2S	2. Q⊃G
3. −E∨−S	3A
4. ~SVN 2.4:DS	$4. \ (Q \supset G) \supset (A \lor N)$
5. N 214 DS	5. AVN 2,4 MP
(15) 1. ~R ⊃ ~T	
2. ~T∨B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3. C⊃~R	
4C	The same of the sa
5. C 2 T 1,3 HS	