

1.4.3 D-Type Flip flops Questions

1.	What	is the	purpos	se of a I	O-type	flip flo _l	?										
																	[2]
2.	Wha	at are	the inp	outs of	a D-ty	pe flip	flop?										
3.	Des	cribe	what is	s a me	ant by	a risin	g edge)									[1]
	_																[2]
4.	Des	cribe '	the inp	outs an	d outp	uts of	a D-typ	oe flip f	lop ex	plainin	g how	the ou	tputs a	ire affe	ected b	by the i	nputs.
_																	
_																	
- 5.	Drav	w the	output	of a fl	ip flop	(Q) on	the dia	agram	below								_ [4]
CI	ock																
D																	

[2]

END OF QUESTION PAPER





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Mark scheme

Question	Answer/Indicative content	Marks	Guidance
1	To store a value of 1 bit	1	
2	D or dataC or Clock	1	
3	 The rising edge refers to the output only changing in correspondence with the clocks rising pulse. 	2	
4	 Data input (D) Clock input (C) Q output Q changes corresponding to the clock's high pulse 	4	
5	D Q 1 mark for each two correct clock cycles.	2	
	Total	10	

