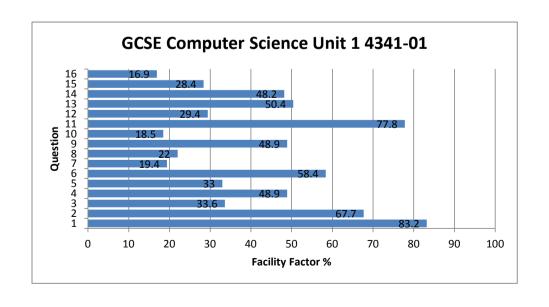


WJEC 2014 Online Exam Review

GCSE Computer Science Unit 1 4341-01

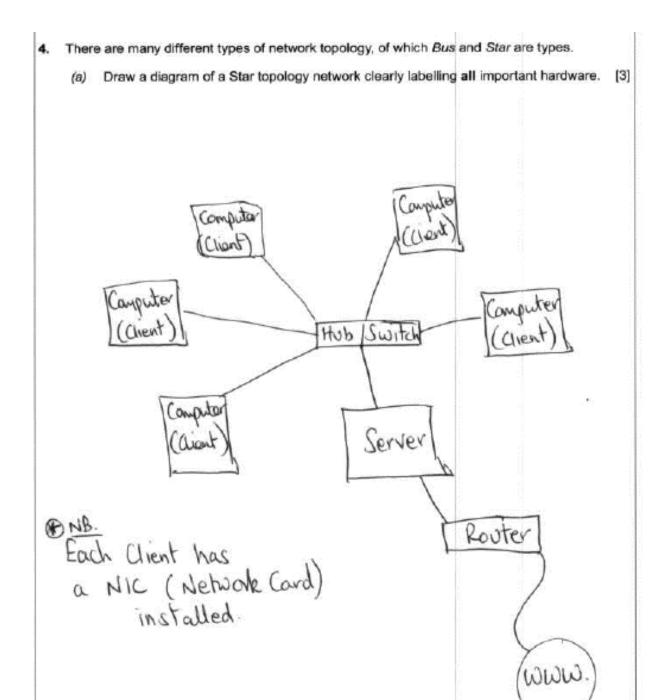
All Candidates' performance across questions

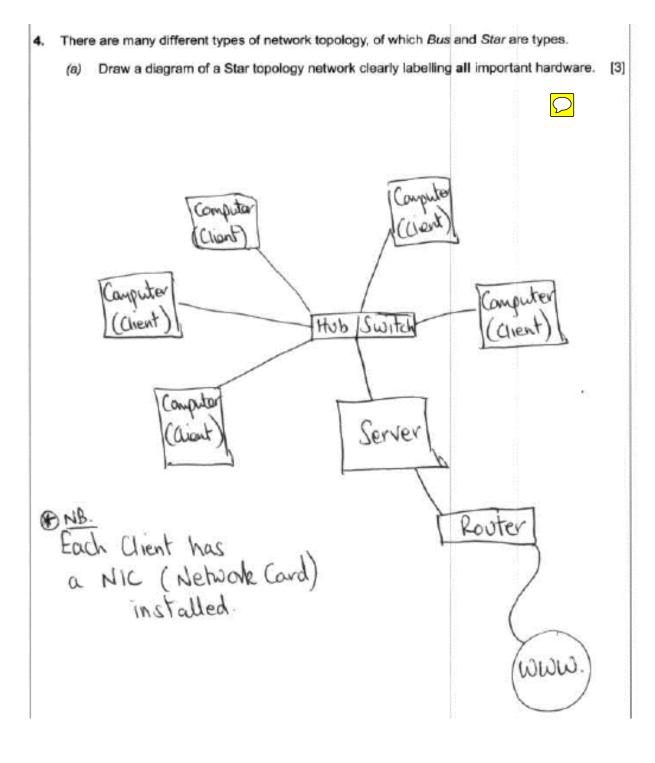
?	?	?	?	?	?	?	
Question Title	N	Mean	S D	Max Mark	F F	Attempt %	
1	364	3.3	0.8	4	83.2	99.7	
2	365	4.1	1.4	6	67.7	100	
3	363	2.7	1.8	8	33.6	99.5	
4	361	3.4	1.8	7	48.9	98.9	\leftarrow
5	359	2.6	1.6	8	33	98.4	
6	334	2.3	1.5	4	58.4	91.5	
7	326	0.8	0.8	4	19.4	89.3	
8	314	1.1	1.1	5	22	86	
9	355	2	1.2	4	48.9	97.3	
10	357	1.1	1.4	6	18.5	97.8	\leftarrow
11	363	5.4	1.8	7	77.8	99.5	
12	327	0.6	0.7	2	29.4	89.6	
13	344	1	0.8	2	50.4	94.3	
14	357	3.9	2.7	8	48.2	97.8	\leftarrow
15	345	0.9	0.9	3	28.4	94.5	
16	336	2	1.8	12	16.9	92	



4.	There	e are many different types of network topology, of which <i>Bus</i> and <i>Star</i> are types.	
	(a)	Draw a diagram of a Star topology network clearly labelling all important hardware.	[3]







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C = other machines such as computers

A connection could be a hard ware convection a Chinest or Wi-fi

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10.	Com	puter programs can contain different types of <i>error</i> .	Exa
	(a)	Giving an example, state what is meant by a syntax error.	[2]
	(b)	Giving an example, state what is meant by a run time error.	[2]
	(c)	Giving an example, state what is meant by a logical error.	[2]



10.	Computer programs can contain different types of error.	9
	(a) Giving an example, state what is meant by a syntax error.	[2]
	the agramming browage does a le of	code trucky
	due to a spelling error such us tod	instead of
	int in Java which would not be borgeris	sed by on horprob
	(b) Giving an example, state what is meant by a run time error.	[2]
	An ecrot causat obvious works	donna -
	esecution such as a logical oper	esotion tha
	loop which couses on endless loop	which reguste
	More memory I as a computer con bondle to	urd trades a sydom.
	(c) Giving an example, state what is meant by a logical error.	[2]
	Andror in Egic which allows the	2 proglam
	to run but still output the wrong	ublue sudh
	as confusing a + choracter with	(-) dooder
	in a line of code causing a Calculate	r to about
	RHC 08 2-2 or O.	

10.	Computer programs can contain different types of error.
	(a) Giving an example, state what is meant by a syntax error. [2]
	The acquarment brange does not complete
	- He function attained to a le of code travelly
	due to a spelling error such as jud instead of
	int in Java which would not be recognised by an interpret
	(b) Giving an example, state what is meant by a run time error. [2]
	An error caused obvious worky during
	esecution such as a logical operation than
	loop which couses on endless loop which regulars
	More memory I as a computer con handle and trades a system.
	(c) Giving an example, state what is meant by a logical error. [2]
	Andror in baic which allows the program
	to run but still output the wrong value such
	as confising a + choracter with in - worder
	in a line of code causing a calculator to about
	2 H2 08 2-2 or O.

10.	Computer programs can contain different types of error.
	(a) Giving an example, state what is meant by a syntax error. [2]
	A syntax error is an error in the rules of the
	programming language, eg spelling, characters
	For example: in Python strings, when printed
	must have speech marks => print (Hello World ond backets and backets error [2]
	An error that occurs when the program
	loop contingual with a t terrametria
	loops continously without terminating.
	eg. Count = 10
	While Count > 5 , Count = Count +]
	(c) Giving an example, state what is meant by a logical error. [2]
	This is an error in the logic of the program
	which would not prevent the program running but
	would not allow to run properly
	For example: If 2 > 10 error
	2 is never greater than 10 so this
	program won't work but the
	production work of the test where
	compiler would not detect why.

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	1 H 10 co Hain
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	program won't work but the
	compiler would not detect why.
	0

4.	(a)	Convert the hexadecimal number 3C to binary.	[2]	Exam onl
	(b)	Convert the hexadecimal number 3C to denary.	[2]	
	(c)	Convert the binary number 11110111 to hexadecimal.	[2]	
	(d)	Explain why hexadecimal numbers are often used to represent binary numbers.	[2]	



14. (a) Convert the hexadecimal number 3C to binary. 3 C = 3 12	[2]
3=0011	
12=1100	
3C = 00111100	
(b) Convert the hexadecimal number 3C to denary. 3 C = (CO) (CO)	[2]
0 oll/100 = 32 + 16 + 8 + 4 = 60	
(c) Convert the binary number 11110111 to hexadecimal.	[2]
E Z	

14.	(a) Convert the hexadecimal number 3C to binary. \bigcirc 3 \subset = 3 \cdot 12	[2]
	3=0011	
	12=1100	
	3 = 00111100	
	(b) Convert the hexadecimal number 3C to denary. 3 C = 0011100	[2]
	0	
	(c) Convert the binary number 11110111 to hexadecimal.	[2]

14.	(a)	Convert the hexadecimal number 3C to binary.	C=12	D=13 F=14 F=15	[2]
		C=1Z= 1100			
		00111100			
	(b)	Convert the hexadecimal number 3C to denary. $3 \times 16 = 48$	***************************************		[2]
		48+12=60			
		60	***************************************		
	(c)	Convert the binary number 11110111 to hexadecimal. $ = $	non-construction in the con-		[2]
		0111 = 7 = 7			
		F'7			

14.	(a)	Convert the hexadecimal number 3C to binary.	A=10 B=1/ C=12	D=13 E=14 F=15	[2]
		C=12= 1100	 		***************************************
		0011 1100		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	(b)	Convert the hexadecimal number 3C to denary. $3 \times 16 = 48$			[2]
		48+12=60			
		60	 		
	(c)	Convert the binary number 11110111 to hexadec	sansayin jaro-(ii)	0-11-11-11-11-11-11-11-11-11-11-11-11-11	[2]
		0111 = 7 = 7	 ***************************************		
		F7			

3	= 001	ecimal number 3C to b		
	- 9	1100		
	00111100	Ω		THE RESERVE TO SERVE THE S
(b) Cor	vert the hexade	ecimal number 3C to d	lenary.	
128 E	64	1 332 16 8	1 100	
8.2	t 16 t	e+4= 60		
	vert the binary	number 11110111 to h	exadecimal.	
		THE STATE	77	
	1111			
	F	7		
	F lain why hexade	₹ ecimal numbers are of	ten used to represent binary nu	umbers.
	Palain why hexade	ecimal numbers are of	and con of	imbers.

3	- 001	Annual communication and the communication of the c	
C	- 9	1100	
	∞11100	0	
(b) Conv	ert the hexadeo	ocimal number 3C to denary.	
L28 0	64	1 1 1 1 1 0 0	
82	hand hand had better about 18	e + 4 = <u>60</u> number 11110111 to hexadecimal.	*******
(c) Conv		number 11110111 to nexadecimal.	
	o.I.I.		helimin
	الاه	6111 <u>F</u> 7	nesterno.
	الاه		
	الاه		naugu.
	OIII TITT	6 T	125132711
(d) Expla	TIII F ain why hexade	F7 Framework Framewo	DC: 500 2
(d) Expla	OIII TITT	F7 ecimal numbers are often used to represent binary numbers.	ad San