

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

#### INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32 May/June 2017

Paper 3 Practical Test B MARK SCHEME Maximum Mark: 80

Published

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This document consists of **11** printed pages.

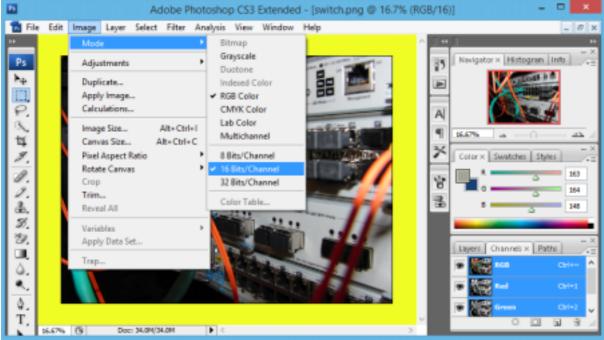


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[Turn over

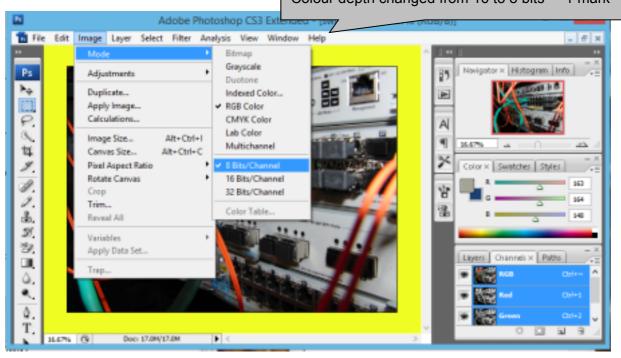
### **Evidence 1**

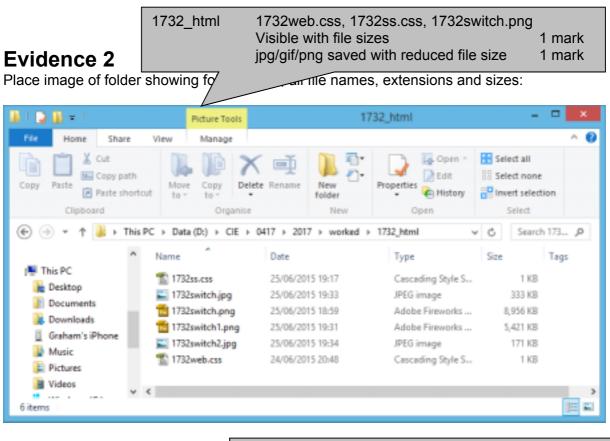
Place original image before changes here:



### Place image after changes here:

Colour depth changed from 16 to 8 bits 1 mark





Evaluation; (4 from) 1 mark each Changed from PNG to JPG/GIF format Changed to 8 bits/channel To reduce storage space/file size To reduce image transmission/upload/download time 8 bits per channel reduces transmission time by about ½. Reduced image quality may not be suitable for web page

### **Evidence 3**

Place your evaluation here:

File has been changed from PNG file settings of 16 bits/channel to a JPG/GIF file of 8 bits per channel. This reduces storage space and image transmission time by about ½.

Evidence 4 Place screenshot of the cropped image	age here:	Cropped to show middle 1/3 onl	y 1 mark
1 15 m din HBB			
	Comments table	/* Candidate details */ width:600px margin-left:auto margin-right:auto	1 mark 1 mark 1 mark 1 mark
	h1	color: #000080 font-family: Chalkduster ,Verdana ,sans-serif font-size:30pt	1 mark 1 mark 1 mark 1 mark 1 mark
	h2,h3,li font-family h2,li font-size	text-align:center font-family:Arial,sans-serif one style set for all 3 styles font-size:16pt one style set for these 2 styles	1 mark 1 mark 1 mark 1 mark 1 mark
Evidence 5	h3	font-size:14pt	1 mark
🥘 1732ss9999.css - Notepad	CSS syntax	font-style:italic Including ; between properties	1 mark 1 mark
<u>F</u> ile <u>E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp		including, between properties	THAIK
/*A Candidate,ZZ999,999	99*/		^
table {width:600p; margin-lef margin-rig	t:auto; ht:auto}		
h1 {color:#000 font-family font-size: text-align	y:Chalkdus 30pt;	ter,Verdana,sans-serif;	;
h2,h3,li {font-family	y:Arial,́sa	ns-serif}	
h2,li {font-size:	• •		
h3 {font-size: font-style	• •		
			~

	100		
	Browser	In browser	1 mark
	Table	3 columns & 4 rows	1 mark
		borders visible	1 mark
	1st row	Uploading and publishing a website	1 mark
		as h1	1 mark
	2nd row	The acronym ftp stands for:	1 mark
		File Transfer Protocol	1 mark
		image 1732img.jpg	1 mark
	3rd row	Correct text in left cell	1 mark
		3+ answers as numbered list	1 mark
	4th row	Website created by: & name & numbers	1 mark
	Left column	Rows 2-4 set as style h3	1 mark
	2nd column	Row 2 set as style h2	1 mark
	(3 from):	1 ma	ark each
		FTP client software	
		All files in one folder	
		Host Name/URL/IP address for ftp	
		Host port to be used for upload	
		Username and password	
12			

### **Evidence 6**

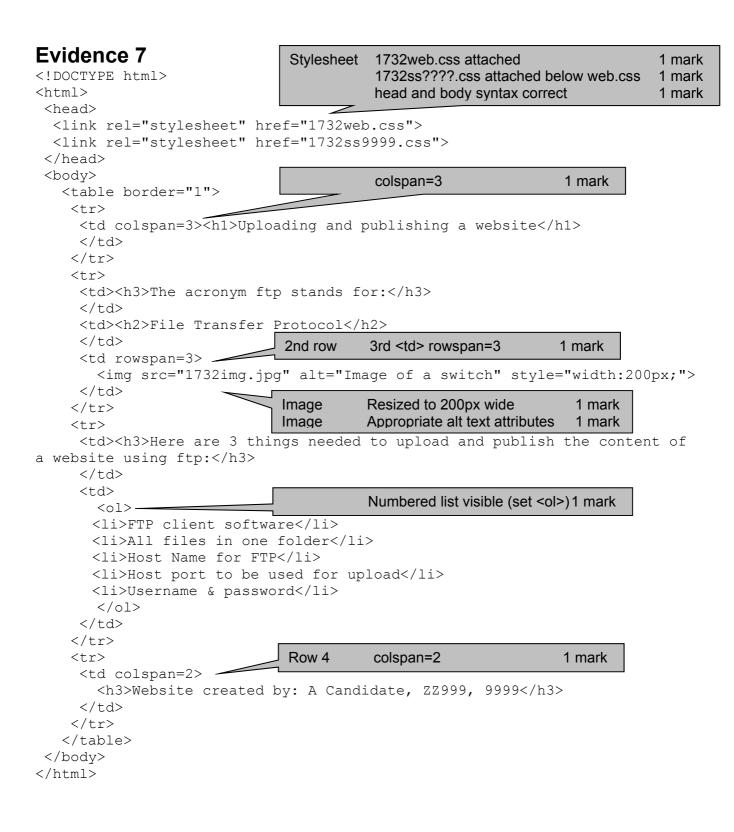
 $\rightarrow$ 

C:\Users\Graham\Deskt × + 4

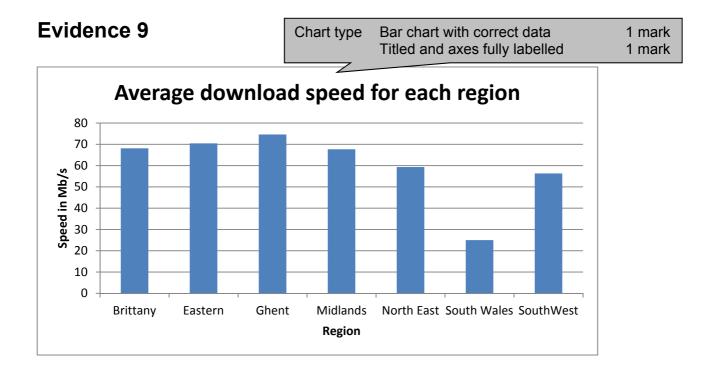
0 file:///C:/Users/Grah

# **Uploading and publishing** a website

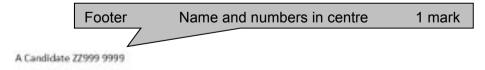
The acronym ftp stands for:	File Transfer Protocol	
Here are 3 things needed to upload and publish the content of a website using ftp:	<ol> <li>FTP client software</li> <li>All files in one folder</li> <li>Host Name for FTP</li> <li>Host port to be used for upload</li> <li>Username &amp; password</li> </ol>	
Website created by: ZZ999, 9999	A Candidate,	



Evidence 8		Function	=AVERAGEIF() or equivalent Correct ranges and cell reference Replicated for all regions	1 mark 1 mark 1 mark
=D4	=AVERAGEIF(\$D\$4	:\$D\$64, <del>G3,,⇒∟</del> ⇒	: <b>4:</b> \$Е\$64)	
=D8	=AVERAGEIF(\$D\$4	:\$D\$64,G4,\$E\$	4:\$E\$64)	
=D22	=AVERAGEIF(\$D\$4	:\$D\$64,G5,\$E\$	4:\$E\$64)	
=D35	=AVERAGEIF(\$D\$4	:\$D\$64,G6,\$E\$	4:\$E\$64)	
=D43	=AVERAGEIF(\$D\$4	:\$D\$64,G7,\$E\$	4:\$E\$64)	
=D54	=AVERAGEIF(\$D\$4	:\$D\$64,G8,\$E\$	4:\$E\$64)	
=D60	=AVERAGEIF(\$D\$4	:\$D\$64,G9,\$E\$	4:\$E\$64)	



			Provider Printout	VLOOKUP () us Correct relative Contents of file Range !\$A\$2:\$ Correct return c ,False for correct Landscape, fully Row and colum	lookup re '1732Pro B\$30 with olumn 2 ct only / s / visible, /	vider.csv h abs ref orted da A1-F18 (	v' f ita only	1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark 1 mark
St	ер	17	Replication	Formula replication	ted corre	ctly		1 mark
-		1				-	_	
1			Broadband	speed test data				
2						Speed	(in Mb/s)	
3	Code	PCpcke	Provider		Region	Doveniced	Upload	
4	6N1	٠	=VLDOKUP[54,10/(CIE);0417(2017)[1732Preventer.csv]1732Proved	6r15452:58530,2,14L1E)	Existant	43.88	16.01	
- 5	EN2	V	tVLDOKUP(85, 101)CIE),0417(2017)(1732Provider.cov)1732Provid	der1/SAS2:\$8\$30,2,FALSE)	Eastern	07.06	8.51	
- 6	UN3		-VLDOKUP[86, '0/(CIE),0417(2017)[1711Provider.cov[1712Provid		North East	45.3	7.98	
7	6944	3	=V4.00KUP(87,101/CIE).0417(2017)[1733Provides.cov[1733Provid		North East	#1.7	11.84	
8 9 10 11 12 13 14	816	X	-MLOOKUP(B8,10/)CIE),0417(2017)[1712Frmider.cv/1712Provid	ker15A52158530,2,FALSE)	North East	60.3	9.50	
9	6N6	V.	=VLOOKUP[88.101/CIEL0417/2017/[1782Provider.ov[1782Provid		North East	161.75	22.85	
30	EN7		+YLOOKUP(510.101/08)0417/2017/(1732Provider.cov(1752Prov	kler15452(58530,2,FALSE)	North East	57.35	9,91	
11	EVE	A	-VL00KUP[811,05/040417/2817(1732Previder.cv/1732Prev	COLUMN AND A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A R	North East	82.85	16.07	
12	01/0		-VLDOKUP[812,10:\CIE]0417\2017[1732Ptovider.cov]1732Ptov	and the second	North East	39.2	5.84	
13	EN30	1 march 1000	VLDOKUP[813,04/OF)0417/2017[1733Provide: cov[5732Prov	A REAL PROPERTY AND A REAL	North East	50.55	8:11	
34	EN11		+VLDOKUP[814,105/CIF)[0417/2017][1733Provider.ov/[1733Prov		North East	61.5	10.1	
-15	EN12		=VL00KUP[815:01/0E)0417/2017/21733Provides.cv/(1732Prov		Month East	80.2	4.54	
38	5N13		~VLDOKUP[856,'01/CE\0417\2017[1733Frevider.ov]3732Prov		North East	69	13.3	
37	EN04		-ML00KUP[817.01/0E(0417)2017E1732Previde1.tsv]1732Prev	the set of	North East	43.8	6.20	
-10	EN15	0	-VLDOKUP[818,'01/OE)0417/2017[1732Provider.cw]1732Prov	tder15A53.58530,7,FALSE)	North East	41.95	5.89	



		Inse	erted	2 new ro	ws at top of page	1 mark
Step 18			row		ells A1 to F1, centre align	
				White 24		1 mark
				Serif font	•	1 mark
				Black ba		1 mark
					nd speed test data	тпак
			SAIQEZ		-	root 1 mork
				Speed (in		
				-	cell E2:F2 right aligned	1 mark
					ormatted as subtitle	1 mark
				•	e portrait page wide, fully	
	Broad	dbar		with no re	ow or column headings	1 mark
				Speed	d (in Mb/s)	
Code	PCode	Provider	Region	Download	Upload	
EN1	F	ECC	Eastern	43.88	16.61	
EN2	v	Virgin media	Eastern	97.06	8.51	
EN3	в	BT	North East	49.9	7.98	
EN4	S	Sky	North East	61.7	11.84	
EN5	x	TalkTalk	North East	60.3	9.56	
EN6 EN7	V K	Virgin media Kcom	North East North East	161.75 57.55	22.35 9.51	
ENS	P	Plusnet	North East	82.85	16.07	
EN9	AB	Tiscali	North East	39.2	5.84	
EN10	E	EE	North East	50.55	8.11	
EN11	A	BE	North East	61.5	10.3	
EN12	т	3	North East	30.2	4.54	
EN13	0	Orange	North East	69	13.3	
EN14 EN15	C Q	Connexin Quickline	North East North East	43.8 41.95	6.26 5.89	
EN16	L	Vodaphone	North East	56.3	8.76	
EN17	Ū	Tmobile	North East	23.7	4.74	
EN18	в	вт	Midlands	45.8	9.16	
EN19	S	Sky	Midlands	56.7	10.84	
EN20	x	TalkTalk	Midlands	50.4	9.58	
EN21	V P	Virgin media Plusnet	Midlands	143.15	18.63	
EN22 EN23	AB	Tiscali	Midlands Midlands	59.75 33	9.45 4.1	
EN24	E	EE	Midlands	57.2	9.94	
EN25	А	BE	Midlands	66.7	12.84	
EN26	т	з	Midlands	72.7	12.04	
EN27	0	Orange	Midlands	81.2	14.24	
EN28	U	Tmobile	Midlands	63.05	11.11	
EN29 EN30	Z B	Zen BT	Midlands SouthWest	82.3 56.25	15.46 9.75	
EN30	S	Sky	SouthWest	57.05	8.91	
EN32	x	TalkTalk	SouthWest	61.8	11.36	
EN33	v	Virgin media	SouthWest	149.95	19.99	
EN34	P	Plusnet	SouthWest	39	7.8	
EN35	AB	Tiscali	SouthWest	32.95	6.09	
EN36	E	EE	SouthWest	56.55	8.81	
EN37 EN38	A T	BE 3	SouthWest SouthWest	35.15 35.35	5.03 5.57	
EN39	G	Eclipse	SouthWest	39.1	5.82	
WA1	в	BT	South Wales	33.1	5.62	
WA3	x	TalkTalk	South Wales	21.3	2.26	
WA4	v	Virgin media	South Wales	51.7	8.34	
WA6	P	Plusnet	South Wales	11.5	1.3	
WA7	AB	Tiscali	South Wales	29.45	4.89	
WA8 WA9	E A	EE BE	South Wales South Wales	27.25 16.8	3.45 1.86	
1102	0	DE	Journ Wales	10.0	1.00	

A Candidate, ZZ999, 9999

WA10	т	3	South Wales	24.35	3.87
WA11	0	Orange	South Wales	33.25	5.15
WA16	z	Zen	South Wales	1.45	-0.21
FR1	0	Orange	Brittany	48.55	9.21
FR2	M	SAS	Brittany	83.35	15.17
FR3	Y	SFR	Brittany	43	6.6
FR4	N	Numericable	Brittany	97.65	18.03
FR5	w	Wifirst	Brittany	68.1	11.12
BE1	AA	Telenet	Ghent	77	13.9
BE2	н	Belgacom	Ghent	82.55	15.01
BE3	R	Scarlet	Ghent	45.8	8.66
BE4	AC	Surf	Ghent	41.25	5.75
BE5	J	UPC Austria	Ghent	138.65	17.73
BE6	1	Belnet	Ghent	69.75	11.95
BE7	D	Destiny	Ghent	67.4	10.98

A Candidate, ZZ999, 9999

tep 20		Searching	1732logo.jpg resiz Virgin media or 3 Download >30 Sorted ascending	or Orange or		1 mark 1 mark 1 mark 1 mark
	Bro	oadband	l speed te	st data		
	Sp	eed test		Speed	(in Mb/s	)
Code	PCode	Provider	Region	Download	Upload	-
EN12	т	3	North East	30.2	4.54	
EN26	т	3	Midlands	72.7	12.04	
EN38	т	3	SouthWest	35.35	5.57	

North East

Midlands

South Wales

Brittany

Midlands

Eastern

North East

Midlands

SouthWest

South Wales

St

EN13

EN27

WA11

FR1

EN28

EN<sub>2</sub>

EN6

EN21

EN33

WA4

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v

v

v

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Orange

Orange

Orange

Orange

Tmobile

Virgin media

Virgin media

Virgin media

Virgin media

Virgin media

#### Also upload speed >10 1 mark 2nd extract Sorted descending on region then download 1 mark

69

81.2

33.25

48.55

63.05

97.06

161.75

143.15

149.95

51.7

13.3 14.24

5.15

9.21

11.11 8.51

22.35

18.63

19.99

8.34

#### Step 21 Broadband speed test data Speed test Speed (in Mb/s) PCode Provider Download Upload Code Region EN33 ٧ Virgin media SouthWest 149.95 19.99 EN6 ٧ Virgin media North East 161.75 22.35 EN13 0 Orange North East 69 13.3 Midlands EN21 ٧ Virgin media 143.15 18.63 EN27 0 14.24 Orange Midlands 81.2 т з Midlands EN26 72.7 12.04 **EN28** Tmobile 63.05 υ Midlands 11.11