

General Certificate of Secondary Education

Digital Technology

Unit 2:

Digital Authoring Concepts

[GDG21]

Assessment

MARK SCHEME

1	(a)	D <h1 style="color:red;"> Heading </h1>	[1]	AVAILABLE MARKS			
	(b)	B correct data, incorrect data, null data, e	[1]	2			
2	(a)	Statement Smart phone company					
		The shop's customers	✓				
		The app developers			[1]		
		More than one Tick – 0 marks awarded					
	(b)	Incomplete prototypes can be used to help with the end user. Sometimes the prototype can be used to ge This is then used to make changes to the prof the application is produced.					
	(c)	Design Task		Design Tool Used	\neg		
		A file containing details about the validation used and details of structure of database to		data dictionary			
		Illustrates the pathway between hyperlinks pages of a multimedia application	navigation structur diagram	re			
		A diagram which shows the layout of the pascreens of a multimedia application	wireframe				
		Can show one-to-one, one-to-many or mar links between database tables	ıy-to-many	entity- relationship diagram			
	(d)	Any three from: Windows [1] Icon [1] Menu/Mouse [1] Pointer/Pulldown Menu [1] (WIMP acceptable)	1] Ise [1] Illdown Menu [1]				
	(e)	Advantages Any two from: Intuitive/user friendly/no need to learn comp built-in help [1] User does not need to understand how com					
		Provision of shortcuts for experienced users Disadvantages	[2]				
		Any two from: Increased processing power/RAM needed [Increased storage needed [1] More powerful graphics card needed [1] Restrictive for experienced users [1]		[2]			
	(f)	Voice data entry/speech recognition		1	[1]	15	
	(')	voice data entry/opecon recognition			r.1	10	

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(a)	Reduce load time of applic Takes up less web space				[2]	AVAILABL MARKS
(b)	Optimised File Type		Use			
	AVI	Video	Sound	Image		
	JPEG	Video	Sound	Image		
	MP3	Video	Sound	Image		
	PNG	Video	Sound	Image		
	More than one option circl	ed per row – 0	marks for that	row	[4]	
(c)	(i) Any two from: Portable document for Compressed file form Format which can be	at [1]	ny platform [1]	1	[2]	
	(ii) Software/code [1] add existing application [1		nctionality to		[2]	10
(a)		(i) Security concerns (description of any appropriate security concern relating to location sharing)				
	(ii) May find them intrusive to view your screen	ve / privacy con	cerns if others	s are able	[1]	
	(iii) Transmit/receive vide	o and audio [1]	over the Inter	net [1]	[2]	
	(iv) (Video/sound streami increased cost [1]	ng) requires lar	ge bandwidth	[1]	[2]	
(b)	Any two impacts with valid May require high quality g May require processor [1] May require more RAM [1	[4]				
(c)	Level 0 [0] Answer is not worthy of cr	edit.				
	Level 1 ([1]–[2]) The candidate describes of the candidate makes limit. The meaning of the text is limited form and style apparswer is limited. There is	ar. ates a				

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Level 2 ([3]–[4])

The candidate describes three [3] or four [4] advantages/disadvantages (to a max of 2 each). The candidate makes satisfactory use of spelling. punctuation and grammar. The meaning of the text is usually clear. The candidate demonstrates a satisfactory form and style appropriate to the question. The organisation of the answer is satisfactory. There is some use of specialist terms.

Level 3 ([5]-[6])

The candidate describes five [5] or six [6] advantages/disadvantages (to a max of 3 each). The candidate makes good use of spelling, punctuation and grammar. The meaning of the text is always clear. The candidate demonstrates good form and style appropriate to the question. The organisation of the answer is good. There is good use of specialist terms.

Answers may include reference to:

Advantages:

Use of reviews or products/sellers before buying

Ability to check stock levels/availability before buying

Search facilities to locate exact product

Secure payment methods

Use of notifications/alerts re special offers/postage, etc.

Connectivity with other social media applications, e.g. can share links Interactive elements – see 360 image of product

Use of shopping carts/wish lists to save items/checkout options

(e.g. click and collect)

Disadvantages:

Multimedia elements take long time to download

Interactive elements may not be portable/accessible on all devices Intrusiveness of alerts

Need access to e-payment methods

Difficulty finding items if wrong key words used

[6]

- 5 Using software (example of software also acceptable) to create (a) (i) an application [1] that contains more than one media type (text, images, video, audio, animation) [1]
 - [2]
 - (ii) Text item on page [1] containing hyperlink (to related content) [1]
- [2]

(b) (i) Sequencing

[1]

(ii) Selection

[1]

(iii) External file/can included between the <head> </head> tags

[1]

, ,		
(c)	Statement	TRUE or FALSE
	In Example A the 'statements to be executed' will be carried out at least once	FALSE
	In Example B the 'statements to be executed' may never be carried out	FALSE
	In Example B the 'statements to be executed' will be carried out more than once	FALSE

[3]

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AVAILABLE MARKS

16

	(d)	User interaction (or example of user interaction such as button click) [1]					
		control what appears next on the screen [1] or reference to the fact that it determines the flow of the program [1]		[2]	12		
6	(a)	(i)	Bitmap image/uncompressed file type	[1]			
		(ii)	Image size Help determine how much space image will take up on web page when displayed in browser	[1]			
			File size Know how much web space the image takes up on the web server	[1]			
	(b)	Sou Cor Dur Mov Det Spe	r four from: und [1] ntents of individual frames [1] ration of individual frames [1] vie duration [1] ails of transitions between frames [1] ecial effects [1] ails of credits/title screen [1]	[4]			
	(c)		e folders [1] reason [1] name pages/assets [1] reason [1]	[4]	11		

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(b)

Tag	Statement 1	Statement 2	Statement 3
<title> </title>	Provides a title for a web page when it is added to browser favourites True /False	Displays a title for a web page at the top of the browser window True /False	Displays a
	Displays a paragraph of text in a different font from the remainder of the text on a web page True/ False	Adds space to a web page around the start and end of a paragraph of text True /False	Highlights text on a web page which is used to locate the page using a search engine True/ False
<body> </body>	Is the first tag which appears on the HTML document True/ False	Is the last tag which appears on the HTML document True/ False	Contains all of the visible content of the web page True /False
			[9]

.

[1]

(ii) 50 (pixels) \times 50 (pixels)

[1]

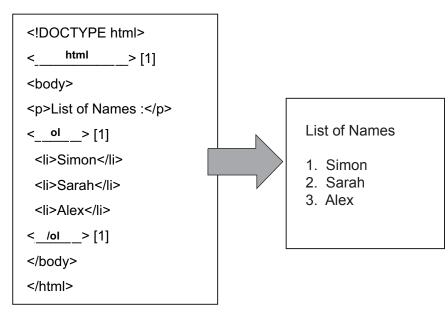
(iii) or

[1]

(iv) alt

[1]

(d)



6

17

[3]

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8	(a)	One to many [1]									AVAILABLE MARKS		
	(b)	Needed in both to create relationship [1]											
	(c)	Text/string/alphanumeric [1]											
	(d)	Validat											
		>1 OR											
	>=1 OR <=3												
	>1 AND <3												
		>= 1 AI	ND <=	3	✓							[1]	
		more th	an 1 ti	ck – 0 i	marks awa	arded							
	(e)	Field:	Firstnar	me	Surnan	ne	С	DateOfLess	on	Dura	ation	77	
		Table: Sort:	Studen		Studen		_	essonTbl			onTbl		
		Show:		\checkmark		abla	Ŀ	1/1/19 [1]	2	[1]		
		Criteria: or:					-						
												[2]	
	(f)												
Field Tabl			stname identTbl	Surname StudentTb	HouseNumb StudentTbl	er Street Student	Tbl	PostCode StudentTbl	DateOfLes LessonTbl	son	StartTime LessonTbl	Duration LessonTbl	
Show	rt: w:					E		Ø					
Criteri	on:												
	(g)	SEI	LECT		al Cost: [.		urati [1] Tele]]* - lum		15 [1]	[2]	
		FF	ROM	Stı	udentTbl								
		WH	IERE	To	wn="Belfas	st"						[3]	
	(h) Mail merge can be used to send personalised [1] letters to large numbers of people. Using a mail merge allows the user to add field headings [1] from a database table into a word processed document. During the mail merge process data the database table is inserted into the completed letter [1] can also be used to select data as part of the mail merge process. [3]												
	(i)	Small program [1] used to perform repetitive tasks automatically [1] [2]											
	(j)	j) Data integrity Accuracy [1] and consistency of data [1] [2]											

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		Sta	atement	True or False	1	AVAILABLE				
	(k) 		ta Redundancy is the unnecessary duplication	True [1]	_	MARKS				
		of data in a database		T (4)	_					
		Data Redundancy increases the filesize of a True [1] database								
					_	20				
9	(a)	Tes	ting and making changes [1] at different stages i	n development [1]	[2]					
	(b)	(i)	Carried out on completed system [1] Help ensure correct outputs produced / user re	quirements met [1]	[2]					
		(ii)								
		(iii)	Any two from: Carried out before beta testing [1] Simulate use by real users [1] Use black box testing methods [1]		[2]					
	(c)	Ass Loa	d times [1]	ensuring all multimedia elements load correctly [1] s/ensuring all interactive elements work correctly [1]						
10	(a)	Any To i To i To g] [2]							
	(b)	Any To e Cha Allo	[2]							
	(c)	(i)	Ensure the system fulfils the user requirements	3	[1]					
		(ii)	Any two from: Test on a range of hardware platforms [1] Test on a range of software platforms [1] Appropriate example [1]	[2]	7					
				otal	120					

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