

Mark Scheme (Results)

Summer 2017

Pearson Edexcel GCSE in Information and Communication Technology (5IT03) Paper 01

Unit 3: Exploring Digital Design



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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (a) (i)	Any two from: Copy / Paste snipping tool Clone/duplicate Stamp Rotate Select/magic wand/lasso		Accept alternative/software specific wording/names of tools	2

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (a) (ii)	Α			1

Question Number	Answer	Do not accept	Additional Guidance	Mark
1(b)(i)	 Any three from: Have competition logo on both Put competition name/title on both Use same font (sizes/styles) Use similar image styles (e.g. all actual images / all cartoons) Use the 'strap line' on both Use photos that show competition identity (e.g. venues, event logos on clothing) Use same layout 			3

Question Number	Answer	Do not accept	Additional Guidance	Mark
Number 1(b)(ii)	An explanation of why both a website address and a QR code should be included such as:			
	Users may not be able to scan the QR code (1) due to the poster's location / what the user is doing (1)			
	QR code is unreadable (1) due to printing/paper issues (1)			
	It is a printed advert (1) so you can't click the link / need alternative method of opening the URL (1)			
	Not everybody has a device/software for scanning QR codes (1) which reduces the number of people who can access the information/book tickets (1)			
	Users access the internet in different ways (1) providing both will increase the number of people who can access the information/book tickets (1)			
	QR code is not human readable (1) URL can be remembered (and entered later) (1)			2

Question	Answer	Do not accept	Additional Guidance	Mark
Number				
1 (b)(iii)	D			
				1

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (c) (i)	Visual Hierarchy		Accept any recognisable spelling	1

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (c) (ii)	 Any two ways to use animation to draw attention from: Make only key information move Change the order in which information appears (e.g. have most important information appear first or last) Make key information stay on screen longer Make text grow Add colour change effect Loop/repeat a specific animation 	'Make it move' on its own	For MKPT 6 - Accept examples/descriptions of animations that can be used (e.g. arrows pointing at key information)	2

Question Number	Answer	Do not accept	Additional Guidance	Mark
1 (d)	 Seek permission to use it (from copyright holder) Use content that provides permission to use (e.g. creative commons licences) Check/adhere to the licence/copyright (terms) Use 'public domain'/copyright expired sources Commission/purchase content 			2

Total for Question 1 – 14 marks

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (a)	С			1

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (b)	Competitor Table Title: eg Mr.,Mrs. Name:	mple response		
	Country: Date of Birth: DD MM YYYY Category: Able bodied / Mpaired Able bodied / Impaired			
	 Award one mark each for: All fields have spaces for data entry Data entry fields sized appropriately 'Date of Birth' field formatted to aid entry/improve accuracy (e.g. DD/MM/YYYY boxes. Calendar/date picker) Category uses dropdown or radio buttons 		To award sizing mark the fields should be sensible for their use (e.g. 'Title' is smaller than 'Name').	
				4

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (c)(i)	Any two features from: Listen to this page' feature (Enable/allow) screen reader support Adjustable font (type) Adjustable font size Zoom/magnifier 			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (c) (ii)	 Any two reasons from: Legal requirement Moral / ethical obligation Improves accessibility for all users /users with impairments Increase number of potential users / return users Improves company's reputation 			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (c) (iii)	 Any two ways from: Place text on the buttons/make it clearer if the button or text is the link Align buttons/links/menu options Make buttons consistent size Use a more legible/clearer/easier to read font Add an exit button Add help option Reduce the size of the logo Difference between heading/text size / increase heading size Accept			
	Examples of suitable fonts that could be used for mark point 4.			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
2 (d)	Award one mark for a suitable file type and two marks for a suitable explanation. Type- Vector (1)		File type accepted anywhere in the answer	
	Allow vector file extensions e.g. SVG/EPS			
	Why suitable – Can be resized (1) without losing quality (1)			
	Supports transparency (1) so can be placed on a range of backgrounds (1)			
				3

Total for Question 2 – 14 marks

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (a)	 Any one from: Structure diagram Sitemap Hierarchy diagram 		Allow any recognisable spelling	1

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (b) (i)	 Any two from: Layout (of the website/pages) will be consistent Saves time (setting up) Enforces house style/branding Minimizes errors Can make universal changes 		Award 'consistency' on its own only if layout or house style not already awarded	
				2

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (b) (ii)	A linked explanation such as: (Button 2) does not use text (1) which aids users with lower literacy levels/a first language other than English (1) Use of an image (1) helps users recognise the purpose (1) (Button 2) is commonly used (1) which makes navigation more familiar for users (1)		Allow points and expansions from different examples providing they make sense	2

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (c)	A description of how 'Alt text' supports users with poor internet connections, containing any two from:		'Loads faster' or similar only accepted as part of a description.	
	 Provides a description of the image/conveys same meaning and information as the image (1) So users can turn images off/images do not need to be loaded (1) Reduce amount of data downloaded (1) In order to improve loading times (1) 		Linked response required for two marks.	2

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (d)	An explanation to include any two from: (The image) is a bitmap / made up of (many) pixels(1) The number of pixels do not change (1) Original resolution is lost (1) The image is not redrawn (1) Allow 'Each pixel is enlarged' for 'original resolution is lost'		Accept reverse arguments related to vector	
	lust			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (e)	An explanation of how roll over helps optimise use of screen space such as: Menus/submenus will expand/appear when needed (1) if the mouse is positioned on the menu (1) providing more space for other content (1)			
	Some menu items are hidden (1) so more content can be shown on the screen at once (1) reducing the need to scroll (1)			3

Question Number	Answer	Do not accept	Additional Guidance	Mark
3 (f)	Two linked explanations such as: Desktop computers are usually more powerful (1) so can handle more multimedia content (1) Greater range of input devices used (e.g. mouse, keyboard etc.) (1) provide opportunities for different interactive features (1) Screen size is usually larger (1) so more can be shown on the page at once (1) Less likely to be accessed on a mobile data connection (1) so more can be included on the page without significant impact on load times (1)		Allow responses phrased in the negative for use of mobile sites e.g. "Mobile devices often use cellular data, meaning they can take longer to load"	4

Total for Question 3 – 16 marks

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (a)	 Any two ways from: Icons will be usually larger (than when using a mouse, fingertip) Greater spacing between buttons/icons (to avoid accidental pressing) Can incorporate multi touch functions Alternative actions for common functions will need to be used (e.g. long touch for right click) 'Roll over' functions will not be possible 	'Avoid scrolling'		2

Question Number	Answer	Do not accept	Additional Guidance	Mark
4(b)	A linked explanation such as: May be awkward / uncomfortable to use (1) due position of screen (mounted on the wall) (1) Touchscreens / on-screen keyboards reduce speed of data entry (1) because of slow response times / may need multiple presses for caps or numbers etc. (1) Screen can get dirty due to fingerprints (1) making it difficult to see content / less responsive (1)			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (c) (i)	 Any two from: The user has asked for more time (Yes outcome from 'Has user pressed 'yes'?') The user has said they do not require more time (Yes outcome from 'Has user pressed 'no'?') The timer has exceeded 10 seconds (Yes outcome from 'Is Timer >= 10 seconds?') 			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
4 (c) (ii)	An explanation such as:			
	In case a user leaves a screen open (1) the information point will close the screen / return to the menu (ready for the next user) (1)			
	To give a user time (1) to respond / read the message (1)			
	Close the screen automatically (1) after 10			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
4(d) (i)	Any two characteristics from: • Age • First language • Disabilities		Allow any recognisable spelling.	2

Question Number	Answer	Do not accept	Additional Guidance	Mark
4(d) (ii)	An explanation such as:		Accept reverse arguments	
	They will have the same characteristics / expectations / needs (as the target audience) (1) so test results will be valid (1)			2

Question Number	Indicative Content
* 4 (e)	Indicative content
	Indicative content Content: Wide ranging audience so: May consider different types of media e.g. Video, images, text Language will need to be understandable for different age and education levels Audience will be from a range of beliefs and backgrounds so will need to ensure none of the content discriminates or offends The information point may be used by people with lots of knowledge about a sport or by users with very little knowledge. The designer will have to get the balance of technicality and explanation right Purpose – a public information point Media and text should be short and to the point as there may be a number of people waiting to use it Will be used in a public place so will need to consider how audio content can be delivered or if it should not be used Will need to provide a wide range of information about the venues and sports, Functionality: Wide ranging audience so: offer alternative navigation and viewing options to support users of differing abilities Many users will be from other countries so provide options to translate the text in to different languages Purpose a public information point: The Translation will have to be optimised for a touch screen interface Users will only use the system occasionally so the interaction should be intuitive to
	 Wide ranging audience so: offer alternative navigation and viewing options to support users of differing abilities Many users will be from other countries so provide options to translate the text in different languages Purpose a public information point: Interaction will have to be optimised for a touch screen interface

		o Program may need an auto restart function to ensure that ut restarts if crashes or stops working.
Level	Mark	Descriptor
	0	No rewardable material.
1	1-2	The candidate identifies a few ways in which audience or purpose affect an information point. Examples are not always relevant to the competition. They may not focus on content or functionality.
		The candidate uses everyday language and the response lacks clarity and organisation. Spelling punctuation and the rules of grammar are used with limited accuracy.
2	3-4	The candidate identifies a number of ways in which audience and purpose affect an information point. Examples are mostly relevant to the competition. They will focus on content or functionality. The candidate uses some specialist terms and the response shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy.
3	5-6	The candidate identifies a range of ways in which the audience and purpose affect an information point. Examples are relevant to the competition and link to audience and purpose. Response will discuss content and functionality. The candidate uses specialist terms consistently and the response shows good focus and organisation. Spelling, punctuation and the rules of grammar are used with considerable accuracy.

Question	Answer	Do not accept	Additional Guidance	Mark
Number				
5 (a) (i)				
	D			
				1

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (a) (ii)	С			1

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (a) (iii)	An explanation of the use of a timeline storyboard such as: Can check the movie will be the correct/required			
	length (1) as the document provides a scale showing the (overall) timings (1) Can decide the duration of transitions/overlaps/videos (1) which will help the designer identify where cuts/edits should			
	happen (1) Can see when each video/asset is played (1) and for how long (1)			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
5(b)	Soundtrack/Music/background musicVoice over/narration/narrator			2

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (c) (i)	A description such as:			
	Action/respond to feedback (1) retest video (1) to check actions are successful / no unintended changes have been made (1).			
	(If no problems identified) the final video will be checked by client (Julianna) (1) against the brief (1) for approval (1).			3

Question Number	Answer	Do not accept	Additional Guidance	Mark
5 (c) (ii)	An explanation of why versioning is used including three from: Aids documentation of testing/changes (1) showing the most up-to-date product (1) so the designer can 'roll back' (to previous version) (1) if there is an error/file becomes corrupt or different creative direction (1).			3

Question Number	Indicative Content
* 5 (d)	A discussion of the factors that the designer should consider to ensure a good user experience for the
	video.
QWC	
	Discussion to include areas such as:
	Choice of file type
	o Quality vs size
	 Compatibility with different platforms
	 Use of codecs
	 Need for users to install additional software
	Implications of download vs streaming
	Use of compression
	 Benefits and drawbacks
	 impact on user, website and video
	Copyright:
	∘ Use of DRM
	 Providing permissions/restricting sharing
	Impact/appropriateness of content

Level	Mark	Descriptor
	0	No rewardable material.
1	1-2	Candidate identifies a few factors which should be considered when sharing the video.
		Discussion is general and may not always be accurate.
		The candidate uses everyday language and the response lacks clarity and organisation. Spelling punctuation and the rules of grammar are used with limited accuracy.
2	3-4	The candidate identifies a number of factors which should be considered when sharing the video online .
		There is some consideration of how the identified factors impact on the user experience .
		The candidate uses some specialist terms and the response shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy.
3	5-6	The candidate identifies a range of factors which should be considered when sharing the video online .
		The candidate provides relevant examples of how the factors impact on the user experience .
		The candidate uses specialist terms consistently and the response shows good focus and organisation. Spelling, punctuation and the rules of grammar are used with considerable accuracy.

Total for Question 5 - 18 marks Total for Paper - 80 marks