



Mark Scheme (Results)

Summer 2025

Pearson Edexcel International Advanced Subsidiary
In Information Technology (WIT12)
Paper 1

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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.

Unit 2 2506 Theory Mark Scheme

Question number	Answer	Additional guidance	Mark
1 (a)(i)	A1 Award one mark for any of the following: <ul style="list-style-type: none"> • title (1) • script(1) • style (1) • link (1) • base (1) • meta (1) • noscript (1) • template (1) 	Allow examples of meta data such as charset, description, keywords, author, viewport Do not accept style sheet Do not accept language	1
1 (a)(ii)	A2 Award one mark for any of the following: <ul style="list-style-type: none"> • specifies the URL/path/location/source/link/address (of the audio file) (1) 		1
Question number	Answer	Additional guidance	Mark
1 (b)	B1 Award one mark for: <ul style="list-style-type: none"> • The age value will be 18 (1) 		1

Question number	Answer		Additional guidance	Mark
1 (c)	C1 C2	<p>Award up to two marks for a linked explanation such as:</p> <ul style="list-style-type: none"> • GET is used to retrieve data (1) whereas POST is used to submit data (1) • GET retrieves from a server (1) whereas POST sends to a server (1) • GET data are in the URL (1) whereas POST data are in the (message) body / HTTP post transaction(1) • GET uses the URL (1) whereas POST uses the (message) body / HTTP post transaction(1) • GET has a maximum number of characters that can be sent (1) whereas the POST method does not (1) • GET does not modify the server's state (1) whereas POST can (1) • GET can be cached/remain in browser history (1) whereas POST cannot (1) • GET only supports string data type (1) whereas POST supports many data types (1) • GET allows bookmarking (1) whereas POST does not (1) 	Accept information, values, details for data	2

Question number	Answer	Additional guidance	Mark
1 (d)	Award one mark for each correction:		2
	D1	 tag added after </h2> and before Alder (1)	
	D2	 tag changed to tag at the end of Beech(1)	
	Correct code is:		
<pre> <h2>BRITISH NATIVE TREES</h2> Alder Ash Aspen Beech Birch </pre>			

Question number	Answer	Additional guidance	Mark	
1 (e)	Award one mark for each:	ID and link must match exactly for E2	2	
	E1			ID added to Inspirational quotes about trees (1)
	E2			Internal hyperlink added from Back to the top to Inspirational quotes about trees (1)
	Example code:			
<pre> <h2 id="top">Inspirational quotes about trees</h2> Back to the top </pre>				

Question number	Answer	Additional guidance	Mark
2 (a)	<p>A1 A2</p> <p>Award up to two marks for a linked explanation such as:</p> <ul style="list-style-type: none"> • Faster development / saves time (1) because the code is already written / the code/CSS does not need to be written / adjustments only need to be made (1) • Faster design / helps with design (1) because time does not need to be spent planning a house style / deciding the styling of elements • Cross browser functionality (1), because the code/CSS is written to look/function the same on all browsers (1) • Provides consistency (1), because all of the components have a similar look / house style (1) • Responsiveness ready (1) because different screen sizes / devices are already included (1) • Includes styling guidelines (1) to meet WWW consortium suggested requirements (1) <p>If no other marks awarded then award one mark for:</p> <ul style="list-style-type: none"> • No need to make design/style decisions /help with design/style decisions 	<p>Do not accept pre-built css stylesheets need to know what they meant by pre-built</p> <p>Do not accept easier to make changes as would not need to manually change each one</p> <p>Do not accept good for beginners</p>	2

Question number	Answer	Additional guidance	Mark
2(b)	<p>B1 B2 B3</p> <p>Award up to three marks for a description such as:</p> <p>When the user hovers over the image (1) the image rotates 180 degrees (1) in 3 seconds (1)</p>	<p>Do not accept after 3 seconds the transition occurs</p>	3

Question number	Answer	Additional guidance	Mark
2 (c)	Award one mark for each of	Accept url without quotes for C2	2
	C1 3px solid green (1)		
	C2 url("tree.jpg") (1)		
	Example code: <pre> table { /* Add your code here */ border: 3px solid ■green; /* Add your code here */ background-image: url("tree.jpg"); } </pre>		

Question number	Answer	Additional guidance	Mark
2 (d)	Award one mark for each of:	Must be formatted using CSS styling	4
	D1 Headings centre aligned (1)		
	D2 Headings font size 30 pixels (1)		
	D3 Headings underlined (1)		
	D4 Paragraphs left margin 80 pixels (1)		
Sample code <pre> <style> /* Add your code here */ h2 { text-align: center; font-size: 30px; text-decoration: underline; } p { margin-left: 80px; } </style> </pre>			
Total mark for question			10

Question number	Answer	Additional guidance	Mark						
3 (a)	A1 A2 <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code line</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>33</td> <td>Small packages 8 (1)</td> </tr> <tr> <td>34</td> <td>Large packages 4 (1)</td> </tr> </tbody> </table>	Code line	Output	33	Small packages 8 (1)	34	Large packages 4 (1)	Ignore case but spelling and values must be correct	2
Code line	Output								
33	Small packages 8 (1)								
34	Large packages 4 (1)								

Question number	Answer	Additional guidance	Mark
3 (b)	B1 B2 <p>Award two marks for a linked explanation such as:</p> <ul style="list-style-type: none"> • The parameters are treeName/heightMetres (1) whereas the arguments are Ash/35 (1) • The parameters are (in the function definition) on line 10 (1) whereas the arguments are on line 15 (1) • The tree details will be passed as arguments (1) to the parameters in the sub program treeDetails (1) <p>Award a maximum of one mark if examples from the code are not included for arguments and parameters</p>		2

Question number	Answer	Additional guidance	Mark						
3 (c)	<p>Award one mark for each of:</p> <table border="1"> <tr> <td>C1</td> <td>Check whether the image is the last image (1)</td> </tr> <tr> <td>C2</td> <td>Reset image number to 0 if needed (1)</td> </tr> <tr> <td>C3</td> <td>Increment the image number by 1 if needed (1)</td> </tr> </table> <p>Sample code:</p> <pre> // Add your code here if (imgNum == 4) { imgNum = 0; } else { imgNum ++; } </pre> <pre> // Add your code here imgNum++; // add 1 to this variable if (imgNum > 4) { // it is greater than 4 imgNum = 0; // reset it to 0; } </pre> <pre> // Add your code here if(imgNum !=4) { imgNum ++; }else{ imgNum = 0; } </pre> <pre> // Add your code here imgNum = (imgNum + 1) % images.length; </pre>	C1	Check whether the image is the last image (1)	C2	Reset image number to 0 if needed (1)	C3	Increment the image number by 1 if needed (1)		3
C1	Check whether the image is the last image (1)								
C2	Reset image number to 0 if needed (1)								
C3	Increment the image number by 1 if needed (1)								

Question number	Answer	Additional guidance	Mark
3 (d)	Award one mark for each of:		4
D1	Call the displayOff function on body load Or Off button click (1)		
D2	displayOff function sets the image source to off.png / off.jpg Or displayOn function sets the image source to on.png / on.jpg / (1)		
D3	displayOff function hides the Off button And displays the On button Or displayOn function hides the On button And displays the Off button (1)		
D4	Fully working in the browser (1)		
	<p>Example code:</p> <pre> <script> function displayOff(){ // Add your code here document.getElementById("bulb").src = "off.png" document.getElementById("offButton").style.display = "none" document.getElementById("onButton").style.display = "block" } function displayOn(){ // Add your code here document.getElementById("bulb").src = "on.png" document.getElementById("onButton").style.display = "none" document.getElementById("offButton").style.display = "block" } </script> </head> <body onload="displayOff()"> <form id="bulbForm">
 <input id="onButton" type="button" value="On" onclick="displayOn()" /> <input id="offButton" type="button" value="Off" onclick="displayOff()" /> </form> </pre>		

Question number	Answer		Additional guidance	Mark	
4	Award one mark for each of the following points up to a maximum of fourteen marks.			20	
	Evidence found in				
	HTML – Head	A1	Uses an external style sheet		1
	HTML – Body	A2	All of these HTML5 semantic elements used: <header></header> <nav></nav> <footer></footer>		1
	CSS	A3	Colour set appropriately for at least one of: <ul style="list-style-type: none"> • Header - celadon (#ACE1AF) • Navigation - midnight green (#004953) • Footer - celadon (#ACE1AF) 		1
	CSS	A4	Black border set for at least one of: <ul style="list-style-type: none"> • Top border of header • Bottom border of header 		1
	CSS	A5	Italics for Why We Need Trees		1
	HTML – Body	A6	Link added for at least one of: <ul style="list-style-type: none"> • Hyperlink added to help.html • Email link added from Contact Us to Dan@WeNeedTrees.jrc 		1
	CSS	A7	Font colour set to white for at least one of: <ul style="list-style-type: none"> • Hyperlink • Email link 		1
	Below 600 pixels				
CSS	A8	Font size set appropriately for at least three of: <ul style="list-style-type: none"> • Main heading – 26 pixels • Sub heading – 20 pixels • Article subheadings – 22 pixels • Navigation, article text and footer – 16 pixels 	1		
	A9	Centre alignment used for heading And article sub headings	1		
CSS and Page in browser < 600 pixels	A10	Images set to 100% width of page	1		

600 pixels and over				
CSS	A11	Font size changed appropriately for: <ul style="list-style-type: none"> • Main heading – 46 pixels • Article subheadings – 38 pixels • Sub heading – 37 pixels • Navigation, article text and footer – 24 pixels 	1	
CSS	A12	Images displayed as ovals with dark olive green (#556B2F) borders	1	
CSS and Page in browser >= 600 pixels	A13	Float correct for at least one of: <ul style="list-style-type: none"> • Image 1 floated left of paragraph 1 • Image 2 floated right of paragraph 2 	1	
CSS and Page in browser >=600 pixels	A14	Float and text wrap correct: <ul style="list-style-type: none"> • Image 1 left of paragraph 1 with paragraph 1 text wrapping underneath • Image 2 right of paragraph 2 with paragraph 2 text wrapping underneath 	1	

Award up to a maximum of six marks for the adherence to the component layout and the application of CSS using the levels based mark scheme below.					
Topic Area	0	1	2	3	Mark
Adherence to component layout design	No awardable content.	There is little adherence to the component layout design, leading to a solution that is not fit for purpose or is not suitable for the intended audience.	An attempt to adhere to the component layout design leads to a solution that is, in parts, fit for purpose and is, in parts, suitable for the intended audience.	The webpage fully adheres to the component layout design and style requirements. The resulting solution is fit for purpose and is suitable for the intended audience.	3
Application of CSS to control presentation	No awardable content.	There is little attempt to make use of the facilities of CSS to control appearance and style. Most components rely on default configuration.	An attempt has been made to use CSS to control the appearance and style of some components. This has been successful in some cases.	Consistent and accurate application of CSS is used throughout to control the appearance and style of all components.	3
Total mark for question					20

Question number	Answer	Mark		
5	Award one mark for each of the following points up to a maximum of 11 marks.	20		
			Marks	
	registration.html			
	A1		The volunteer age input is stored in their variable for the volunteer age value	1
	A2		Regular expression created that would accept only postcodes in this format: <ul style="list-style-type: none"> • 2 uppercase letters • followed by 1 digit • followed by a space • followed by 1 digit • followed by 2 uppercase letters 	1
	A3		At least one condition added correctly <ul style="list-style-type: none"> • check if postcode is valid • check if age is valid 	1
	A4		At least one suitable error message displayed correctly <ul style="list-style-type: none"> • if post code is invalid • if age is invalid 	1
	A5		Selection uses if...elseif...else rather than individual if statements AND all of the components at least attempted	1
	A6		Valid details concatenated and stored in the variable message or their equivalent	1
	A7		Valid details displayed (must be a recognisable attempt at A6 for A7 to be awarded)	1
	volunteers.html			
	A8		Loop interface correct	1
	A9		At least one adult surname Or adult forename appended to the volunteer drop down	1
	A10		All full adult names appended to the volunteer drop down	1
A11	Selected name displayed in the volunteer paragraph (must see it working in the browser)	1		

Award up to a maximum of **nine** marks for the functionality, user interface design, use of notation. Using the levels based mark scheme below.

Topic area	0	1	2	3	Mark
<p>Appropriate functionality:</p> <ul style="list-style-type: none"> • components and code have been decomposed into appropriate parts • dynamic behaviours are implemented in JavaScript. 		<p>The component parts of the program are incorrect or incomplete, providing a program of limited functionality that meets some of the given requirements.</p> <p>Mostly inappropriate logic used.</p>	<p>The component parts of the program are complete, providing a functional program that meets some of the given requirements.</p> <p>Some parts of the logic are clear and mostly appropriate to the problem.</p>	<p>The component parts of the program are complete, providing a functional program that fully meets the given requirements.</p> <p>The logic is clear and appropriate to the problem.</p>	3
<p>Appropriate interface design:</p> <ul style="list-style-type: none"> • error messages and other status reports • Interactivity between JavaScript and HTML 		<p>The design of the user interface lacks consideration for fitness for purpose and the intended audience.</p>	<p>The design of the user interface is in parts fit for purpose and addresses some of the needs of the intended audience.</p>	<p>The design of the user interface is fully fit for purpose and suitable for the intended audience.</p>	3

Topic area	0	1	2	3	Mark
<p>Appropriate use of notation:</p> <ul style="list-style-type: none"> • presentation of JavaScript ensures clear readability • comments provide clarity. 		<p>Uses programming constructs and techniques to produce some required outcomes in the code.</p> <p>Uses data types that are rarely appropriate to the problem.</p> <p>Limited use of accurate syntax.</p> <p>Limited appropriate use and manipulation of data structures.</p> <p>Some use of meaningful variable names with limited or unhelpful commenting.</p> <p>Parts of the code are clear and readable but much of it makes limited use of appropriate spacing and indentation.</p>	<p>Uses programming constructs and techniques to produce most of required outcomes in the code.</p> <p>Uses data types, some of which are appropriate to the problem.</p> <p>Uses mostly accurate syntax.</p> <p>Accesses and manipulates data structures to produce mostly correct results and/or outcomes.</p> <p>Uses mostly meaningful variable names, with some use of appropriate commenting.</p> <p>Code is mostly clear and readable, making some use of appropriate spacing and indentation.</p>	<p>Accurate programming constructs and techniques are used.</p> <p>Appropriate data types are selected.</p> <p>Accurate syntax is used.</p> <p>Data structures are accessed and manipulated efficiently</p> <p>Meaningful variable names and comments are used throughout.</p> <p>Code is clear and readable, making effective use of appropriate spacing and indentation.</p>	3
Total mark for question					20

Question number	Indicative content	Mark
6	<p>Should be identifying factors they think are important</p> <p>For example</p> <ul style="list-style-type: none"> • Cross browser testing is testing to ensure websites work as expected across many different web browsers and devices • Functionality testing is testing against the pre-defined requirements for the website • Usability testing is testing how easy it is for the users to use the website • Code validation is checking that the coding of a web page is compliant with standards and recommendations set by W3C. <p>Consideration and significance</p> <p><i>Cross browser testing</i></p> <ul style="list-style-type: none"> • Can be done manually or automatically • Checks that the design is how it should be • Checks that security is maintained • Need to decide which browsers and devices to test on • Need to test with newer and older versions • May need emulators for devices rather than physically having each device <p><i>Functionality testing</i></p> <ul style="list-style-type: none"> • Tests against the website's requirements • Tests for bugs and any changes are made before the website is live • Tests that the website does exactly what it is meant to do • Tests links, forms, cookies, sessions etc • Tests using pre-planned input • Compared against expected output <p><i>Usability testing</i></p> <ul style="list-style-type: none"> • Tests the functionality of the website by observing real users as they use it/complete tasks • Users usually observed by researchers in person or remotely • Used to determine the practical functionality of the website so that overall user experience can be improved if need be • Should reveal any bugs impacting the user • Should show whether users can complete tasks efficiently • Should show whether the user can navigate the site easily • Very important as can have a website that functions correctly but users won't use as they don't understand how to etc <p><i>Code validation</i></p> <ul style="list-style-type: none"> • Checking HTML, CSS and JavaScript code for syntax errors and compatibility issues • Checking the code is in compliance with the standards and recommendations of W3C for the web • Can use tools to automate parts of it like browser extensions that will validate the code as it is written • Can use code editors with built in validation to validate as it is written 	9

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-3	<ul style="list-style-type: none"> • Applies understanding with limited coherence, showing limited understanding of the given issue. • Assessment of solution is superficial or unbalanced, and judgements lack support from evidence.
Level 2	4-6	<ul style="list-style-type: none"> • Applies understanding to make some coherent connections, showing some understanding of the given issue. • Assessment of solution is partially developed, but this may be unbalanced, using evidence to support some judgements.
Level 3	7-9	<ul style="list-style-type: none"> • Applies understanding coherently, showing a thorough understanding of the given issue. • Assessment of solution is balanced and developed, using evidence to support judgements throughout.
		Total for question 9

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