

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				

Pearson Edexcel International Advanced Level

Monday 18 May 2026

Morning (Time: 3 hours)

Paper reference **WIT12/01**

Information Technology

International Advanced Subsidiary/Advanced Level

UNIT 2

You must have:
A computer workstation with a text editor, browser software and Questions folder (containing assets, HTML and CSS files).

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions **requiring a written answer** in the spaces provided – *there may be more space than you need.*
- Carry out the practical tasks on the computer workstation and save new or amended files using the file name given in the question.
- You must **not** use the internet during the examination.

Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Save your work regularly.
- Check your answers if you have time at the end.

Turn over ►

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SECTION A

You are advised to spend about 60 minutes on this section.

Answer ALL questions in this section.

Answer the questions requiring a written answer in the spaces provided.

Some questions will require you to save code in a specified format.

1 HTML is used to structure web pages.

(a) The type attribute can be set for an ordered list.

State the purpose of the type attribute in an ordered list.

(1)

(b) An image is 600 pixels wide and 438 pixels high.

The Deer

The park has over 100 free-roaming deer.



(Source: © Pearson Asset Library)

Figure 1

Figure 1 shows the image displayed on a web page at half its original width. The image is distorted.

Figure 2 shows an extract of the HTML code.

```
5 <p>Image 2</p>
6 <p>The park has over 100 free-roaming deer.</p>
7 
```

Figure 2

State how line 7 of the HTML code can be amended to display the image and maintain the original proportions.

(1)



(c) Describe the purpose of a thematic break.

(2)

(d) **Figure 3** shows how a web page should be displayed in a browser.

The HTML code should display:

- the title Wellbourne Park Reviews
- each review surrounded by quotation marks
- Leonardo as emboldened text.

Wellbourne Park Reviews

"Spent an idyllic day at the park. The sun was shining. The play park is wonderful for kids."

"I have been to better parks. But the cafe was nice."

"The dog park is fantastic. My **Leonardo** was able to run off leash, which was amazing as he normally has to be kept on the leash."

"The best park ever. I walk around it every day taking in nature all around."

Figure 3

The page does not display as intended because there are **two** errors in the HTML code.

Open file **Q01d.html** in a browser to identify the errors.

Open the file in your editor.

Amend the code to correct the **two** errors.

Save your amended code as **Q01dFINISHED.html**

(2)

(e) Explain **one** reason for using a class attribute rather than an ID attribute on a page.

(2)

(Total for Question 1 = 8 marks)



2 CSS is used by browsers to style HTML elements.

(a) The CSS box model is used for the design and layout of an element.

Explain **one** reason for using padding on a web page.

(2)

(b) **Figure 4** includes the code for a navigation button.

```
6 <style>
7   [title*="pea"] {
8     opacity: .7;
9   }
10  [title^="oon"] {
11    opacity: .5;
12  }
13 </style>
14 </head>
15 <body>
16   
17   
18   
19   
```

Figure 4

Figure 4 shows CSS styling for the images on lines 16 to 19.

Explain which of the images is affected by the CSS styling on **lines 10 to 12**.

(2)

(c) A web page contains a partially completed rectangle.

The rectangle should:

- be right-aligned
- have a background colour set using these values:
 - saturation: 30%
 - light: 75%
 - hue: 120 degrees.

Open file **Q02c.html** in your editor.

Amend the code to complete the formatting of the rectangle.

Save your amended code as **Q02cFINISHED.html**

(3)

(d) A web page contains an image and text.

Figure 5 shows the position and format of the text.

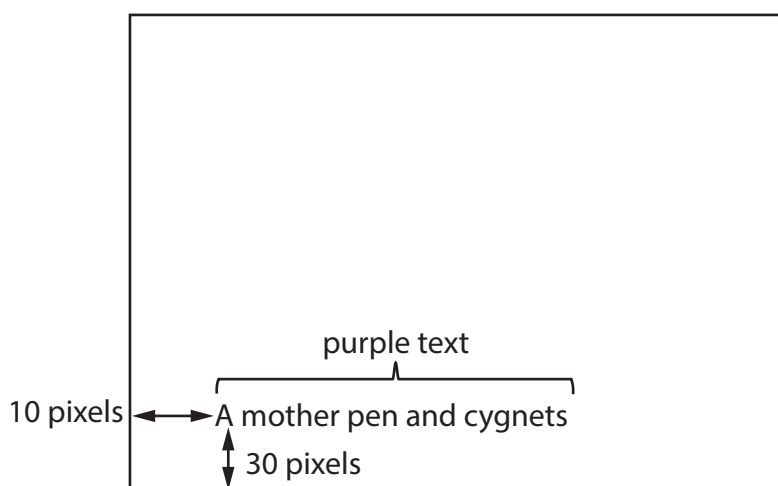


Figure 5

The text must remain in the correct position on the image when the browser window is resized.

Open file **Q02d.html** in your editor.

Amend the code to complete the position and formatting of the text.

Save your amended code as **Q02dFINISHED.html**

(4)

(Total for Question 2 = 11 marks)

3 JavaScript provides interactivity for web pages.

(a) Regular expressions are used to validate user input.

This is an example of a regular expression:

`/RS/[a-z]w+\d{3}(f|g|x)p?`

It validates user input to ensure it matches this format.

The uppercase characters R and S	<code>/RS/</code>
1 lowercase letter	<code>[a-z]</code>
1 or more of the character w	<code>w+</code>
3 digits (i.e. numbers 0 to 9)	<code>\d{3}</code>
The character f or the character g or the character x	<code>(f g x)</code>
0 or 1 of the character p	<code>p?</code>

Examples of valid input include RScw146f, RSrwww481xp

Examples of invalid input include Aaaw368f, RSc372gp

This is another regular expression:

`\d{2}(r|q)[c-r]{2}b+[A-Z]{3}s?`

Give **one** reason why the input **12qcdbCRAss** would fail validation.

(1)



- (b) A regular expression is needed to validate the input of usernames.

Usernames follow this pattern:

ADmeek12, GEsmith46, ADabdul55, GEyoung22

The first two letters show the type of user: AD for admin or GE for general.

Write a regular expression to validate the input of a username.

(2)

- (c) JavaScript has three types of built-in pop-ups.

An alert box is one type of pop-up.

Name **one other** type of pop-up.

(1)



(d) Open file **Q03d.html** in your editor.

The names and descriptions of animals are stored in an array.

The web page displays:

- the name of an animal
- a dropdown box that contains descriptions of animals.

Amend the JavaScript code so that when the user selects a description a message is displayed in the **display** paragraph telling them if the description they have selected is correct or incorrect.

Save your amended code as **Q03dFINISHED.html**

(4)

(e) Open file **Q03e.html** in your editor.

There is an input text box and two buttons on the page.

An array is needed to hold these names:

- Cristina
- Ian
- Bianca
- Ahmed.

Two functions are needed.

When the **Function 1** button is clicked:

- the name in the text box must be added to the array
- the contents of the array must be displayed.

When the **Function 2** button is clicked the last name added to the array must be deleted.

Create a program to meet these requirements.

Save your amended code as **Q03eFINISHED.html**

(4)

(Total for Question 3 = 12 marks)

TOTAL FOR SECTION A = 31 MARKS



SECTION B

You are advised to spend about 120 minutes on this section.

Answer ALL questions in this section.

Answer the question requiring a written response in the space provided.

Some questions will require you to save code in a specified format.

4 Wellbourne Park needs a web page.

A wireframe and style guide have been provided.

Figure 6 shows the wireframe.

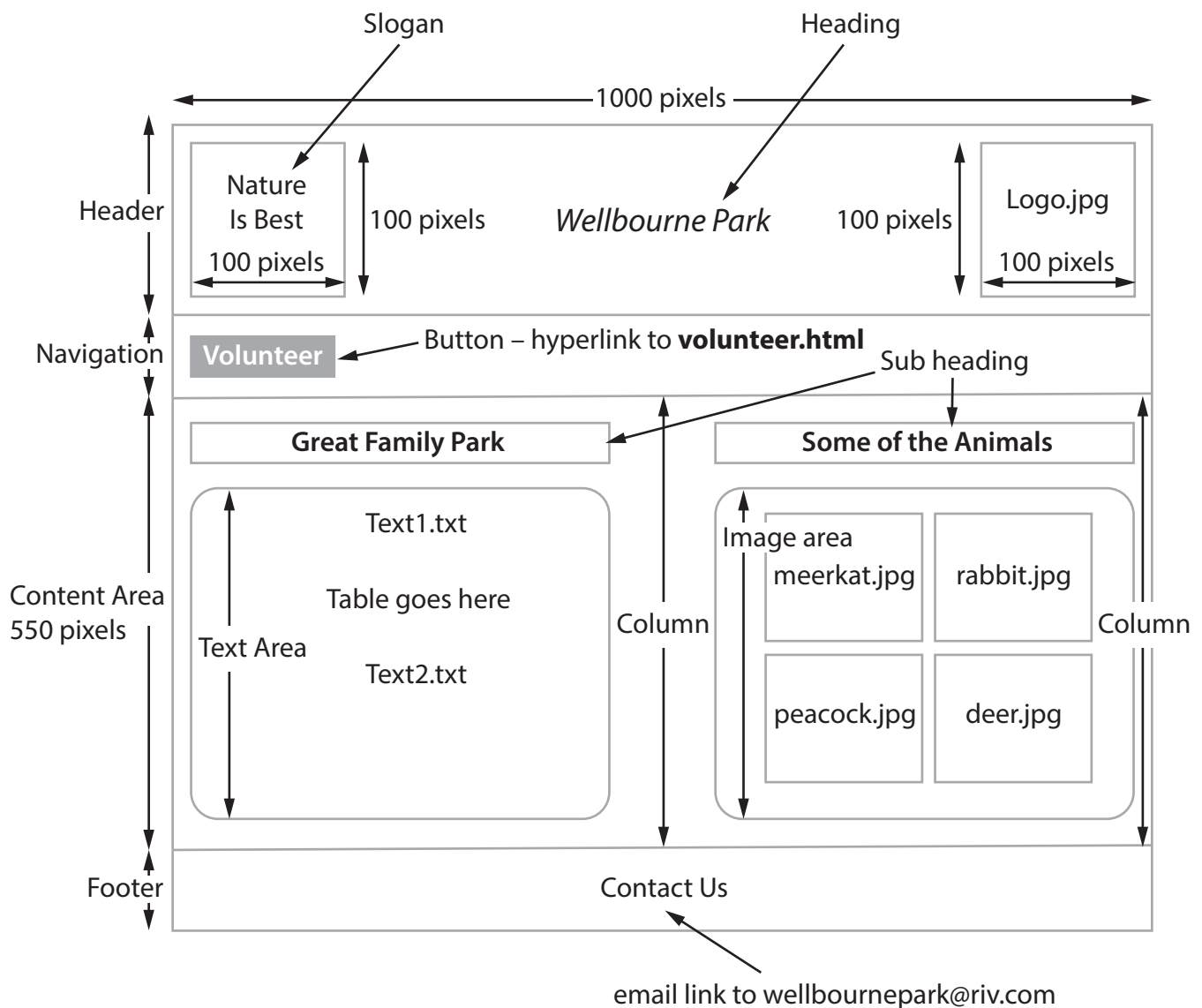


Figure 6



Overall page requirements

- Use HTML5 elements to define the different parts of the page.
- Use Verdana font style.
- Use an external style sheet.
- Use suitable padding and/or margins.

Web Design Style Guide

Header

- Set background colour to passion flower (#6B5B95).
- Set the width to 1000 pixels.
- Set the height to 150 pixels.

Slogan

- Set the background colour to seafoam whisper (#A2B9BC).
- Set the width of the slogan to 100 pixels.
- Set the height of the slogan to 100 pixels.
- Insert the text **Nature Is Best** as shown.
- Set the font size to 16 pixels.
- Centre-align the text.

Heading

- Insert the heading **Wellbourne Park**.
- Set the font size to 35 pixels.
- Set the font colour to white (FFFFFF).
- Italicise the heading.
- Centre-align the heading.

Logo

- Insert the logo image as shown. The image can be found in the assets folder.
- Set the width of the logo image to 100 pixels.
- Set the height of the logo image to 100 pixels.

Navigation

- Insert the button as shown.
- Set the background colour to seafoam whisper (#A2B9BC).
- Set the width to 100 pixels.
- Set the height to 50 pixels.
- Insert the text **Volunteer** as shown.
- Set the font size to 16 pixels.
- Set the font colour to white (FFFFFF).
- Add a hyperlink to the page **volunteer.html**



Content Area

- Set the background colour to jambalaya (#F2B574).
- Set the width to 1000 pixels.
- Set the height to 550 pixels.

Columns

- Insert two columns.
- Insert the column subheadings **Great Family Park** and **Some of the Animals** as shown.
- Set the font size to 20 pixels.
- Centre-align the text.
- Set the border to black.

Text Area

- Set the width to 450 pixels.
- Set the height to 450 pixels.
- Set the background colour to white (#FFFFFF).
- Set the corners of the text area to be curved.
- Set the font size to 16 pixels.
- Insert the paragraphs of text from the file **Text1.txt**. The file can be found in the assets folder.
- Justify the text.
- Insert a table shown in the file **Table.pdf** after the Text1.txt paragraphs. The file can be found in the assets folder.
- Insert the paragraph of text from the file **Text2.txt** after the table. The file can be found in the assets folder.
- Justify the text.

Image Area

- Set the width to 450 pixels.
- Set the height to 450 pixels.
- Set the background colour to white (#FFFFFF).
- Set the corners of the image area to be curved.
- Insert the images as shown. The images can be found in the assets folder.
- Set the width of the images to 200 pixels.
- Set the height of the images to 200 pixels.

Footer

- Set the width to 1000 pixels.
- Set the height to 50 pixels.
- Insert the email link **Contact Us** as shown.
- Set the background colour to passion flower (#6B5B95).
- Set the font size to 16 pixels.
- Set the font colour to white (#FFFFFF).
- Centre align the text.

Develop a prototype web page for Wellbourne Park using the wireframe, style guide, images, text and table provided.

Save your files as **Q04FINISHED.html** and **Q04FINISHED.css**

(Total for Question 4 = 20 marks)

5 Wellbourne Park wants to improve the functionality of its website.

It wants to implement a prototype login system including:

- a verify login page that allows a valid user to log in
- a logged in page that displays a welcome message and customised menu text.

All of the required files are supplied in the **Q05** folder.

No additional resources are required.

You only need to add JavaScript and comments to the existing files.

Verify login page

verifyLogin.html contains an early prototype.

When the submit button is clicked an automated method **must**:

- ensure the user selects a user type and inputs a username and password
- check that the input username and password match the stored username and password for the selected user type
- display a suitable error message in the message paragraph if any of the log-in details are invalid
- pass the username and user type to the page **loggedIn.html** if the log-in details are valid.

These are the valid username and password combinations:

User type	Username	Password
admin	mobin1	B13Cwy
member	smith1	Cr05rt

Complete the prototype.

You **must** add suitable comments to your code to explain how it works.

Save your file as **verifyLoginFINISHED.html**



Logged in page

loggedIn.html contains an early prototype.

When the logged in page is loaded an automated method **must**:

- display a welcome message in the welcome paragraph that includes the word **Hello** and the username
- display the message **The admin menu is under construction** in the menu paragraph if the user type is admin
- display the message **The member menu is under construction** in the menu paragraph if the user type is member.

Complete the prototype.

You must add suitable comments to your code to explain how it works.

Save your file as **loggedIn.html** do **NOT** use any other filename.

(Total for Question 5 = 20 marks)

6 **Figure 7** shows the design of a form for a web page that Wellbourne Park wants to develop.

1 Activity type radio group 2 Activity dropdown box 3 Date dropdown box

The form design is as follows:

- 1 Activity type radio group:** A rounded rectangle containing the text "Choose the activity type" and three radio buttons labeled "Animal related", "Craft related", and "Health related".
- 2 Activity dropdown box:** A rectangular box with the text "Choose the activity" and a downward-pointing triangle on the right.
- 3 Date dropdown box:** A rectangular box with the text "Choose the date" and a downward-pointing triangle on the right.
- 4 Input box:** A rectangular box for "Name".
- 5 Input box:** A rectangular box for "Email".
- 6 Input box:** A rectangular box for "Number of places".
- 7 Submits the activity, date and input details:** A rectangular button labeled "Submit".

Below the input boxes, the text reads: "You will receive email confirmation in the next 24 hours if places are available".

Figure 7

Requirements

When the user chooses an activity type, the relevant activities are added to the activity dropdown.

When the user chooses an activity, the dates that the activity is available are added to the date dropdown.

When the user moves out of the email input box, an error message appears if the email address is not valid.

When the user moves into the number of places input box, a message appears to say they cannot reserve more than five places.

When the user moves out of the number of places input box, if they have tried to reserve more than five places an error message appears.

When the submit button is clicked, validation takes place to ensure an activity type, activity and date have been selected and the name, email and number of places are present.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 6 = 9 marks)

TOTAL FOR SECTION B = 49 MARKS
TOTAL FOR PAPER = 80 MARKS

