

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel**  
**International**  
**Advanced Level**

Centre Number

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Candidate Number

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**Sample assessment material for first teaching**  
**September 2018**

(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

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### 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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**Pearson**



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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 Web pages use HTML.

(a) **Figure 1** shows HTML code that displays a video.

```
1  <!DOCTYPE html>
2  <html>
3      <body>
4
5          <iframe width="420" height="345"
6              src="https://www.itube.com/embed/tZ7Y?autoplay=1">
7          </iframe>
8
9      </body>
10 </html>
```

**Figure 1**

Describe the purpose of the HTML code on lines 5 to 7.

(2)

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(b) **Figure 2** shows how a table of search engines should be displayed in a browser.

The HTML code should allow for all items in the table to be positioned to the left.

Search Engines		
Position	Search Engine	Rating
1	Google	98%
2	Bing	97%
3	Yahoo	96%
4	Ask	95%
5	Yandex	90%
6	Baidu	79%

**Figure 2**

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

Open **Q01b.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 **Q01bFINISHED.html**

(2)



(c) The web page shown in **Figure 2** needs to link to another website.

The link will:

- be added to the text 'Google'
- open the website Google.com in a new browser window.

Write the HTML code to create the hyperlink.

(2)

Use this space to write your code.

(d) Web pages use different types of structural markup.

(i) State what is meant by a block-level element.

(1)

(ii) State what is meant by an inline element.

(1)

(Total for Question 1 = 8 marks)

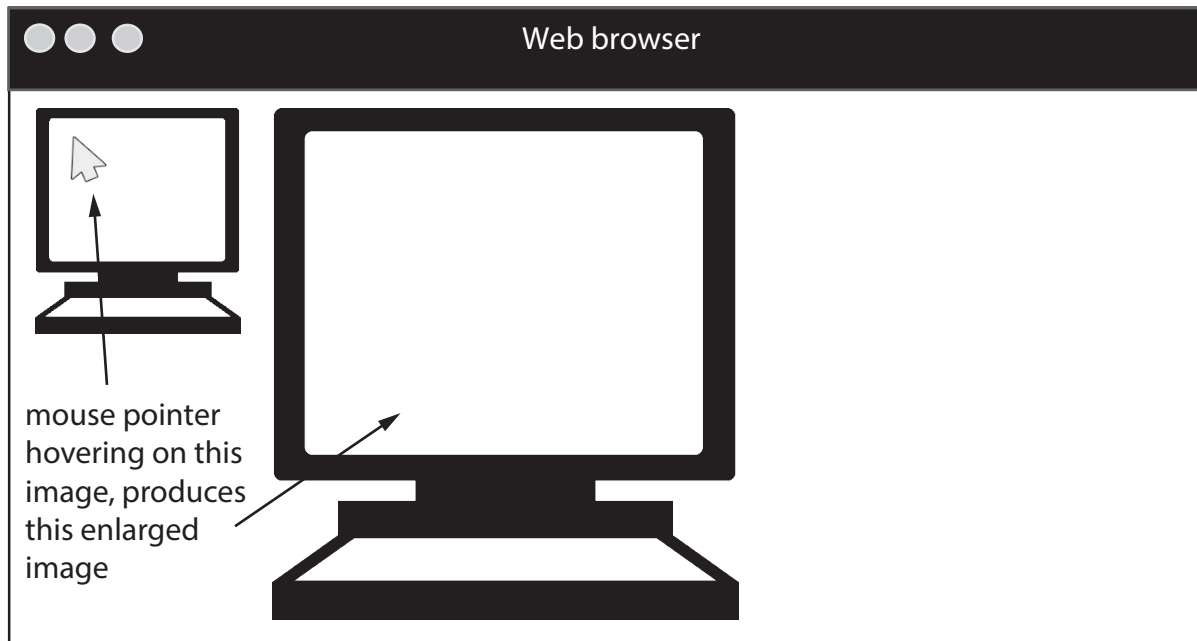


S 6 2 9 0 3 A 0 5 1 5

2 CSS is used by browsers to format web page content.

(a) **Figure 3** shows what a user sees when a web page is loaded in a browser.

It shows what happens when the mouse cursor hovers over the image.



**Figure 3**

**Figure 4** and **Figure 5** show part of the HTML file and the CSS file.

```
19 <title>Visibility</title>
20 <link rel="stylesheet" type="text/css" href="visibility.css">
21 </head>
22 <body>
23 <div class="image-group">
24 
25 
26 </div>
```

**Figure 4**

```
1 .image-thumbnail {
2   width: 200px;
3   height: 225px;
4   float: left;
5 }
6
7 .image-fullsize {
8   width: 400px;
9   height: 450px;
10  float: left;
11  visibility: hidden;
12 }
13
14 .image-group:hover img.image-fullsize { visibility: visible }
15
```

**Figure 5**



Explain how the HTML code on line 23 of **Figure 4** and the CSS code on lines 7 to 14 of **Figure 5** work together to display the larger image.

**You must include line numbers in your explanation.**

(4)

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(b) A web page is responsive.

On devices wider than 600 pixels the web page needs:

- the sidebar to appear on the right
- image two to have an orange background colour.

Open **Q02b.html** in your browser.

Open **Q02b.css** in your editor

Amend the CSS code to correct to complete the positioning of the sidebar and the colour of the background.

Save your amended CSS code as **Q02b.css**

(2)

(c) A web page contains a CSS animation.

A box should grow larger when the mouse cursor hovers over it.

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

There are **two** errors in the CSS code, which means the box does not display and it does not grow larger.

Amend the code to correct the errors.

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

(2)



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(d) Describe the CSS Box Model.

(2)

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(Total for Question 2 = 10 marks)

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**3** JavaScript provides interactivity for web pages.

- (a) Event handlers can be used to trigger functions in JavaScript code.

Describe how an event handler works.

(2)

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- (b) Open **Q03b.html** in your editor.

When the file is opened in a browser, the numbers from 0 to 10 should be displayed.

The JavaScript code is incomplete. This means that the numbers are not displayed.

Amend the code to add a WHILE loop so that the numbers 0 to 10 are displayed when the file is opened in a browser.

Save your amended code as **Q03bFINISHED.html**

(4)

- (c) Open **Q03c.html** in your editor.

The JavaScript code includes an incomplete function to check if a number entered is from 10 to 50.

The 'checkInput' function should return a message:

- if nothing is entered
- if text is entered
- if the number entered is too low
- if the number entered is too high.

Amend the code to complete the function.

Save your amended code as **Q03cFINISHED.html**

(5)



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(d) The **try... catch... finally** construct is used to handle errors in JavaScript.

Explain **one** difference between the catch and finally clauses.

(2)

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(Total for Question 3 = 13 marks)

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## SECTION B

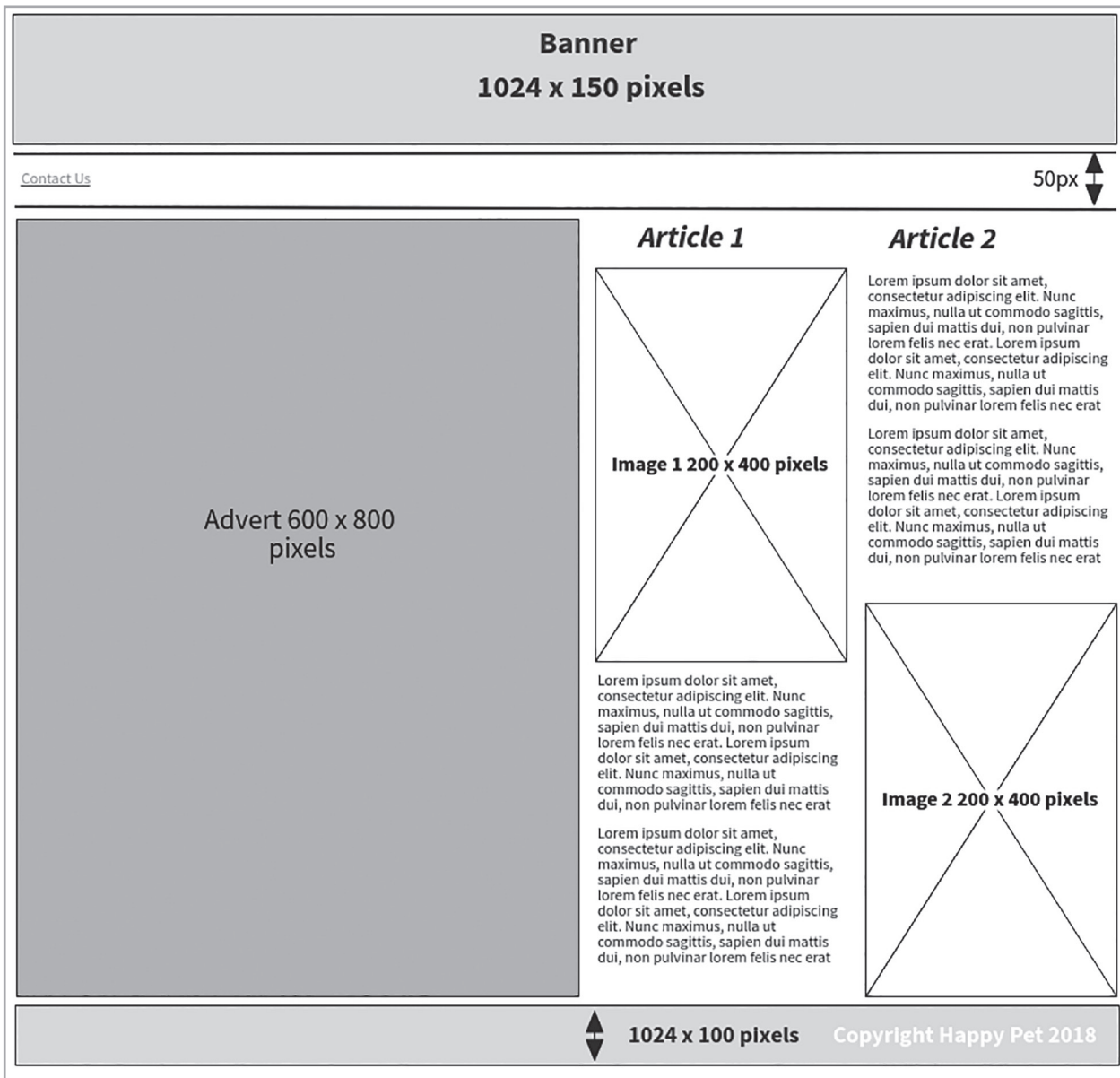
You are advised to spend about 120 minutes on this section.

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.

- 4 Happy Pet is a business that sells pet products. It needs a web page to establish an online presence.

A wireframe and style guide have been provided.



### Overall page requirements

- Set the language to English.
- Alt tags with suitable text should be used on all images.
- Use HTML5 elements to define the different parts of the page.
- Use an external style sheet.



## Web-design Style Guide

### Font

- All text should be set to Arial.
- Colour set to SlateGray – RGB (112, 128, 144).

### Banner

- Position the banner as shown on the wireframe. The banner image can be found in the Assets folder.

### Navigation bar

- Create the navigation bar as shown on the wireframe.
- Create a hyperlink that opens the ContactUs.html page.
- Insert horizontal lines as shown on the wireframe.

### Advert - Image carousel

- The advert is an image carousel with four images that rotate.
- The code for the advert can be found in the Assets folder.
- Add the four images provided to the Advert. The images for the advert can be found in the Assets folder.
- Position the advert as shown on the wireframe.

### Articles and Images

- Position the article headings, texts and images as shown on the wireframe. The article texts and images can be found in the Assets folder.
- Article headings should be set to Black RGB (0, 0, 0).
- Set an emphasis on the headings.
- Image 1 should link to the Contact Us page and open in the browser window.
- Apply suitable padding around all elements.

### Footer

- Set the background colour to be Black with a lightness of 70% - RGB (179, 179, 179).
- Insert the text 'Copyright Happy Pet 2018'.
- Style the text to be White – RGB (255, 255, 255) and right aligned within the footer.

All required images and information are supplied in the Assets folder.  
No additional resources are required.

Develop a prototype web page for Happy Pet using the wireframe, style guide, images and information provided.

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

(Total for Question 4 = 20 marks)

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**5** Happy Pet want to implement a membership facility on their website.

All the required files are supplied in the Q05 folder. No additional resources are required. You only need to add HTML and JavaScript to the existing files.

**Frequently Asked Questions (FAQs)**

Happy Pet want members to see answers to frequently asked questions.

**FAQ.html** contains an early prototype.

Complete the prototype that allows answers to frequently asked questions to be shown.

It must:

- show the message "Please email if the answer to your question is not here" in a pop up when the page loads
- hide the answers to the questions (Q1, Q2 and Q3) when the page loads
- show the message "Contact us by telephone on +44117263891022" when the user clicks on the "Click here for our telephone number" heading
- show the answers to questions 1 and 2 (Q1 and Q2) when the user clicks on them
- show and hide (toggle) the answer to Q3 when the user clicks on it.

Save your file as **FAQFINISHED.html**

**Member details**

Members must have a valid date of birth and be at least 18 years old.

Assume all months have **31** days.

**Index.html** contains an early prototype.

Complete the prototype that allows the member details to be validated.

It must:

- allow the member to enter their day of birth, month of birth and year of birth as three separate numerical inputs
- implement the submit button to:
  - display an error message if the month is out of range
  - display an error message if the day is out of range
  - display an error message if the member is under 18
  - display the date of birth as Month name, Day, Year (e.g. October 1 1993).

Save your file as **IndexFINISHED.html**

**(Total for Question 5 = 20 marks)**



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- 6 Web designers create visually appealing page layouts to enhance the user experience.

Open the Q06.html page in a web browser and in your editor.

Assess how well the web page and HTML code have been used to create an effective page layout and design.

You may use examples from the code and/or line numbers to support your assessment.

(9)

Area for student response with horizontal dotted lines.

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(TOTAL FOR QUESTION 6 = 9 MARKS)  
TOTAL FOR PAPER = 80 MARKS

