Cambridge International AS & A Level

INFORMATION TECHNOLOGY	**9626/04**
Paper 4 Advanced Practical	**For examination from 2022**
SPECIMEN PAPER	**2 hours 30 minutes**

You will need: Candidate source files (listed on page 2)

INSTRUCTIONS
- Carry out every instruction in each task.
- Save your work using the file names given in the task as and when instructed.
- You must **not** have access to either the internet or any email system during this examination.
- You must save your work in the correct file format as stated in the tasks. If work is saved in an incorrect file format, you will **not** receive marks for that task.

INFORMATION
- The total mark for this paper is 90.
- Then number of marks for each question or part question is shown in brackets.

This document has **8** pages. Blank pages are indicated.

All documents produced must be of a professional standard and contain your candidate details.

Create a folder called **Examination** to save all your work.

Copy the following files into your **Examination** folder:

Customers.pdf
Artists.pdf
Gallery Data.ods
Gallery Data.xls
Frame.jpg
Sunshine.jpg
NewSky.jpg
Demo.swf
Olives.jpg
Headland.jpg
Bay.jpg

Do **not** delete these files when submitting your work.

Create a word-processed document named **Evidence** followed by your centre number_candidate number e.g. Evidence_ZZ999_9999

1   Pamborough Gallery uses index cards to keep some of their records.

   Carefully examine the data kept on the cards as shown in the **Customers.pdf** and **Artists.pdf** files.

   Scroll through the cards or click on the name on the tabs to see the records for 3 customers and 3 artists.

   Some sample data about customers, their purchases and artists have been provided in the **Gallery Data** spreadsheet file.

   In your **Evidence** document, create a Data Dictionary and a diagram to show the relationships that you would use to create a database normalised to 3NF.

   Save the Data Dictionary as **Data Dictionary** followed by your centre number_candidate number e.g. DataDictionary_ZZ999_9999   [20]

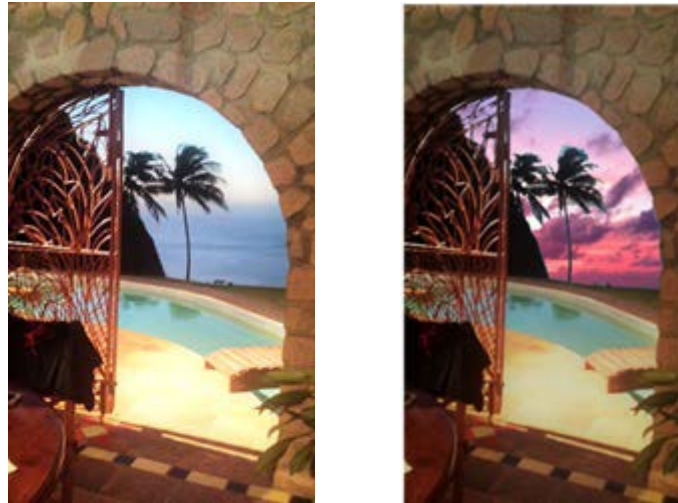**2** Use the **Frame.jpg** file to create an image of the frame like this.

The picture area must be transparent.

Save the image as **PFrame** followed by your
centre number_candidate number e.g. PFrame_ZZ999_9999

[5]

3 Replace the sky in the **Sunshine.jpg** image with the background **NewSky.jpg** as shown.

Save the image as **Sunset** followed by your centre number_candidate number e.g. Sunset_ZZ999_9999

[10]

4 Remove the door in the archway as shown.

Save the image as **SunsetEdited** followed by your centre number_candidate number e.g. SunsetEdited_ZZ999_9999

Fit the **SunsetEdited** image to your **Pframe** image as shown. Save the image as **SunsetFramed** followed by your centre number_candidate number, e.g. SunsetFramed_ZZ999_9999

[10]

5   In a suitable application create the label shown to fit on your **SunsetFramed** image.

The label must have a gold (RGB 218, 165, 32) gradient fill set as shown.

Note the detail on the screwheads

and on the lettering.

Save the image as **SunsetLabel** followed by your centre number_candidate number e.g. SunsetLabel_ZZ999_9999

Add the label to your **SunsetFramed** image as shown.

Save the image as **SunsetLabelled** followed by your centre number_candidate number e.g. SunsetLabelled_ZZ999_9999

[15]

6 In an animation application set a canvas size to 500px by 400px.

Open **Demo.swf** in your browser or a suitable player. You are required to create a similar animation as follows:

The **PFrame** image must fit the canvas with a background that transitions over 7 seconds from light blue, (RGB 100, 255, 255) to a pink (range RGB 255, 150, 200) to 210, 50, 50.

The text **Mediterranean Sunsets** must take 3 seconds to rise to the position shown whilst flipping on a horizontal axis.

The text must be 30 pt., red, in font similar to that shown.

The text **by Ewan Ali** must then take 2 seconds to rise to the position shown with the same rotation.

It must be in the same font, size and colour as the **Mediterranean Sunsets** text.

The text **at Pamborough Gallery** must then take 2 seconds to rise to the position shown without any rotation. The text must be black but in the same font and size as the other text.

Save the animation as **Artshow** followed by your centre number_candidate number e.g. Artshow_ZZ999_9999 [16]

7 The **Olives.jpg** image must then enter the frame from the left to fill the frame in 3 seconds.

Repeat this process with the **Headland.jpg** and the **Bay.jpg** images. Each image must take 3 seconds to fill the frame.

The animation must restart from the beginning.

Save the animation as an animated gif file named **Artwork** followed by your centre number_candidate number e.g. Artwork_ZZ999_9999 [14]

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