



L-Università
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2021 SUPPLEMENTARY SESSION**

SUBJECT:	Information Technology
PAPER NUMBER:	Synoptic – Unit 2
DATE:	3 rd November 2021
TIME:	9:00 a.m. to 11:05 a.m.

**THIS PAPER SHOULD BE RETURNED TO THE INVIGILATOR
AFTER THE EXAMINATION.**

Answer **ALL** questions in the space provided.

Scenario

- SuperbFood is a take-away restaurant.
- Lately the restaurant is not doing very well.
- The owner decided to launch a new marketing campaign to promote the business.

Question 1

K-1 (6 marks)

a. List **TWO** different types of media, except for images and videos, which can be used for this marketing campaign.

Media 1: _____ (1)

Media 2: _____ (1)

b. Relate each type of media listed in Question 1a with the most appropriate human sense/s by ticking the appropriate cell/s in the table below.

	Sight	Hearing	Touch
Media 1			
Media 2			

(2)

c. Identify **ONE** hardware required to either develop or experience each of the media listed in Question 1a.

Hardware Required for Media 1: _____ (1)

Hardware Required for Media 2: _____ (1)




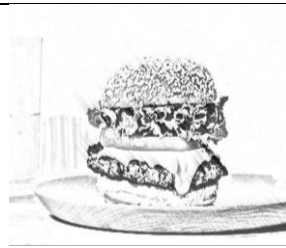
Question 2

K-3 (8 marks)

- Different images are to be used by SuperbFood throughout their marketing campaign.
- The images below show a before and after version of some images after effects were added.

a. Match each image effect listed in the box below with the image to which it was applied to.

Sketch	Brightness
--------	------------

	Before Effect	After Effect	Effect
i.			<hr/> <p>(1)</p>
ii.			<hr/> <p>(1)</p>

Source: <https://www.fotor.com>

Source: <https://www.epicurious.com>

b. Describe the following image effects.

Sketch:

(1)

Brightness:

(1)

This question continues on next page.

Question 4

K-6 (8 marks)

Apart from images, the owner of SuperbFood, decided to utilise videos as well.

- a. Bitrate and frame rate are characteristics of containers. Name **TWO** other characteristics of containers.

Characteristic 1: _____ (1)

Characteristic 2: _____ (1)

- b. The following screenshot shows some of the properties of an MP4 container.

```
Format           : MPEG-4
Length           : 354 MiB for 3 min 20 s 814 ms
Video #0        : AVC
Aspect          : 1280 x 720 (1.778) at 30.000 fps
Audio #0        : AAC at 192 kb/s
Infos           : 2 channels, 48.0 kHz
```

Identify the bitrate and frame rate in the following screenshot.

Bitrate: _____ (1)

Frame rate: _____ (1)

- c. Describe the bitrate and the frame rate of the MP4 container.

_____ (4)

Question 5

K-7 (8 marks)

One of the employees at SuperbFood suggested that a website should be created to better promote the business.

a. List **FOUR** basic elements which usually form part of a website.

Element 1: _____ (0.5)

Element 2: _____ (0.5)

Element 3: _____ (0.5)

Element 4: _____ (0.5)

b. The image below displays a sample website, which SuperbFood might consider.

Identify **TWO** of the basic elements listed in Question 5a by drawing a circle around them on the image below. Then, write down the name of the element next to its circle. (2)



Popular Categories



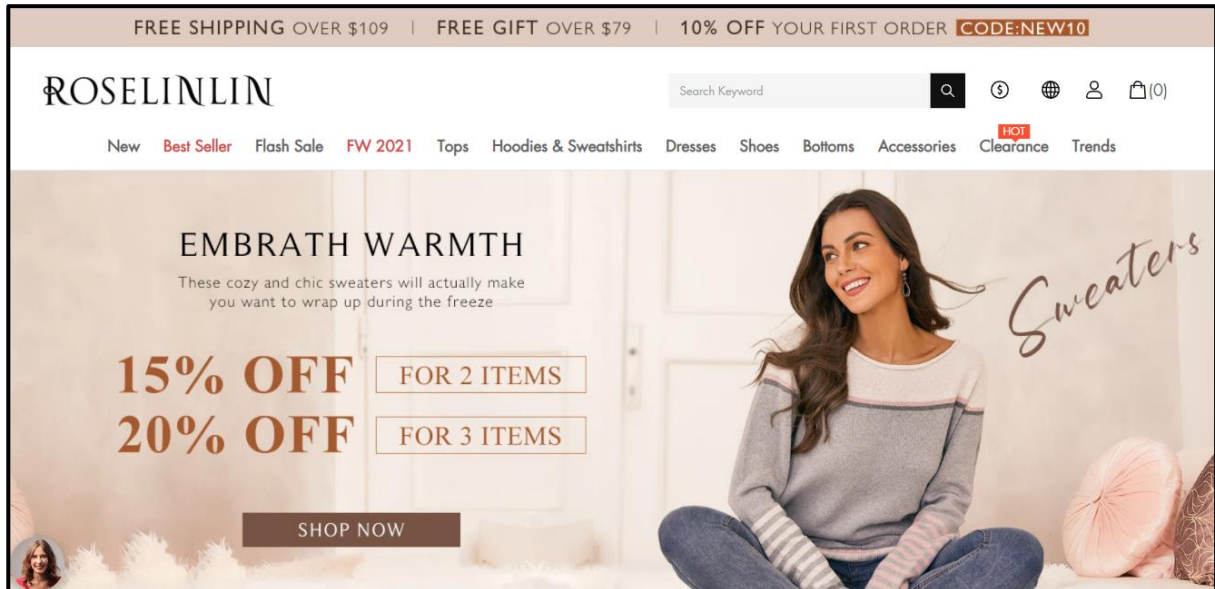
This question continues on next page.

- c. The owner of SuperbFood was considering various scenarios before creating the website. Identify which of the following websites is static and which is dynamic.



Source: <https://cartlidgesqualitymeats.com/>

- i. Type of website: _____ (2)



Source: <https://roselinlin.com/>

- ii. Type of website: _____ (2)

Please turn the page.

Question 7

K-9 (8 marks)

The website for Superbfood will be developed using HTML code.

a. Define HTML and its use.

_____ (2)

b. List **FOUR** HTML basic tags, except for the <a> tag.

HTML basic tag 1: _____ (0.5)

HTML basic tag 2: _____ (0.5)

HTML basic tag 3: _____ (0.5)

HTML basic tag 4: _____ (0.5)

c. The HTML tags displayed on the left-hand side were used during the development of SuperbFood website.

Relate each of the following **FOUR** attributes to their respective HTML tag.

href: _____ (1)

class: _____ (1)

target: _____ (1)

source: _____ (1)

Question 8

C-5 (12 marks)

- During development, the website was not working as expected.
- Errors need to be identified and corrected so that the website can run properly.
- The two code snippets below, show parts of the code which are resulting in an error.

a. Identify the line of code containing the error for each code snippet provided below:

Code Snippet 1:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>SuperbFood
5 </head>
6 </html>
```

Error: _____ (2)

Code Snippet 2:

```
1 <aside>
2 <p style="colour: black">Special Offers</p>
3 </aside>
```

Error: _____ (2)

b. Correct each error identified in Question 8a by writing down the appropriate code for the line containing the error.

Correct solution for code snippet 1:

_____ (2)

Correct solution for code snippet 2:

_____ (2)

This question continues on next page.

c. The website needs to be enhanced further. The HTML code snippet below illustrates part of the developed website.

```

1.     <body>
2.         <nav>
3.             <a href="index.html">Home</a>
4.             <a href="pricing.html">Pricing</a>
5.             <a href="contact.html">Contact</a>
6.         </nav>
7.
8.     <h1>Best Food on the Island</h1>
9.
10.    <p> We enable people to enjoy food... </p>
11.
12.    </body>
13.    </html>
    
```

Enhance the provided HTML code snippet by indicating the line of code which will be modified and writing the necessary HTML code.

i. A dotted border is visible around the <h1> heading "Best Food on the Island"

Line of code number to be enhanced: _____

Enhanced code: _____

_____ (2)

ii. A table is displayed after the paragraph "We enable people to enjoy food...". The table should have the following layout format, whereby the food items should be in one column and their prices shown in a separate column next to it:

Food Price	
Burger	5.50
Pizza	8.00

Line of code number to be enhanced: _____

Enhanced code: _____

Blank Page

Blank Page

Blank Page